



## INDUSTRY STANDARDS

### American Petroleum Institute (API)

API Service Symbol and Certification Mark Identify quality engine oils for gasoline and diesel powered vehicles. Oils displaying these marks meet performance requirements set by U.S. and international vehicle and engine manufacturers and the lubricant industry. More than 500 companies worldwide participate in this voluntary program, which is backed by a marketplace sampling and testing program.

1. Starburst
2. Performance level
3. Viscosity Grade
4. Energy Conserving



API Certification Mark  
Starburst



API Service Symbol  
Donut

#### API SERVICE CLASSIFICATION FOR GASOLINE ENGINE OIL

SA	SB	SC	SD	SE	SF	SG	SH	SJ	SL	SM	SN
1930	1940	1964	1968	1972	1980	1989	1994	1996	2001	2004	2010
Obsolete/Can Cause Equipment harm					Obsolete			Current			

#### API SERVICE CLASSIFICATION FOR DIESEL ENGINE OIL

CA	CB	CC	CD	CE	CF-4	CG-4	CH-4	CI-4	CJ-4
1930	1940	1964	1968	1972	1980	1989	1994	1996	2001
Obsolete/Can Cause Equipment harm				Obsolete			Current		

### Association des Constructeurs Européens d'Automobiles (ACEA)

The European Automobile Manufacturers Association (ACEA) is the standards group of the automobile industry in the European Union. Its members include: BMW, DAF, Daimler AG, Fiat Chrysler Automobiles, Ford Europe, Hyundai Europe, Iveco Jaguar Land Rover, Opel Group, PSA Peugeot Citroën, Renault, Toyota Europe, Volkswagen Group, Volvo Group.

The ACEA European Oil Sequences for Service-fill Oils comprise 3 sets (classes) of sequences: one for Gasoline and Light-Duty Diesel engines; one specifically for Gasoline and Light-Duty Diesel engines with after treatment devices and one for Heavy-Duty Diesel engines. Within each of these sets there are categories which reflect different performance requirements - four (A1/B1, A3/B3, A3/B4 & A5/B5) for gasoline and light-duty diesel engine; four (C1, C2, C3, C4) specifically for engine with after treatment devices, and four (E4, E6, E7, E9) for heavy-duty diesel engines.

### International Lubricants Standardization and Approval Committee (ILSAC)

International Lubricants Standardization and Approval Committee (ILSAC) was formed in 1992 by American Automobile Manufacturers Association (AAMA) represented by Chrysler Corporation, Ford Motor Company, General Motors Corporation, and Japan Automobile Manufacturers Association (JAMA) to define the need, parameters, licensing and administration of lubricant specifications.

ILSAC GF specification equals API Performance plus Fuel Economy performance. For Automotive gasoline engine, the latest ILSAC standard includes the performance properties of each earlier category and can be used to service older engines where earlier category oils were recommended.

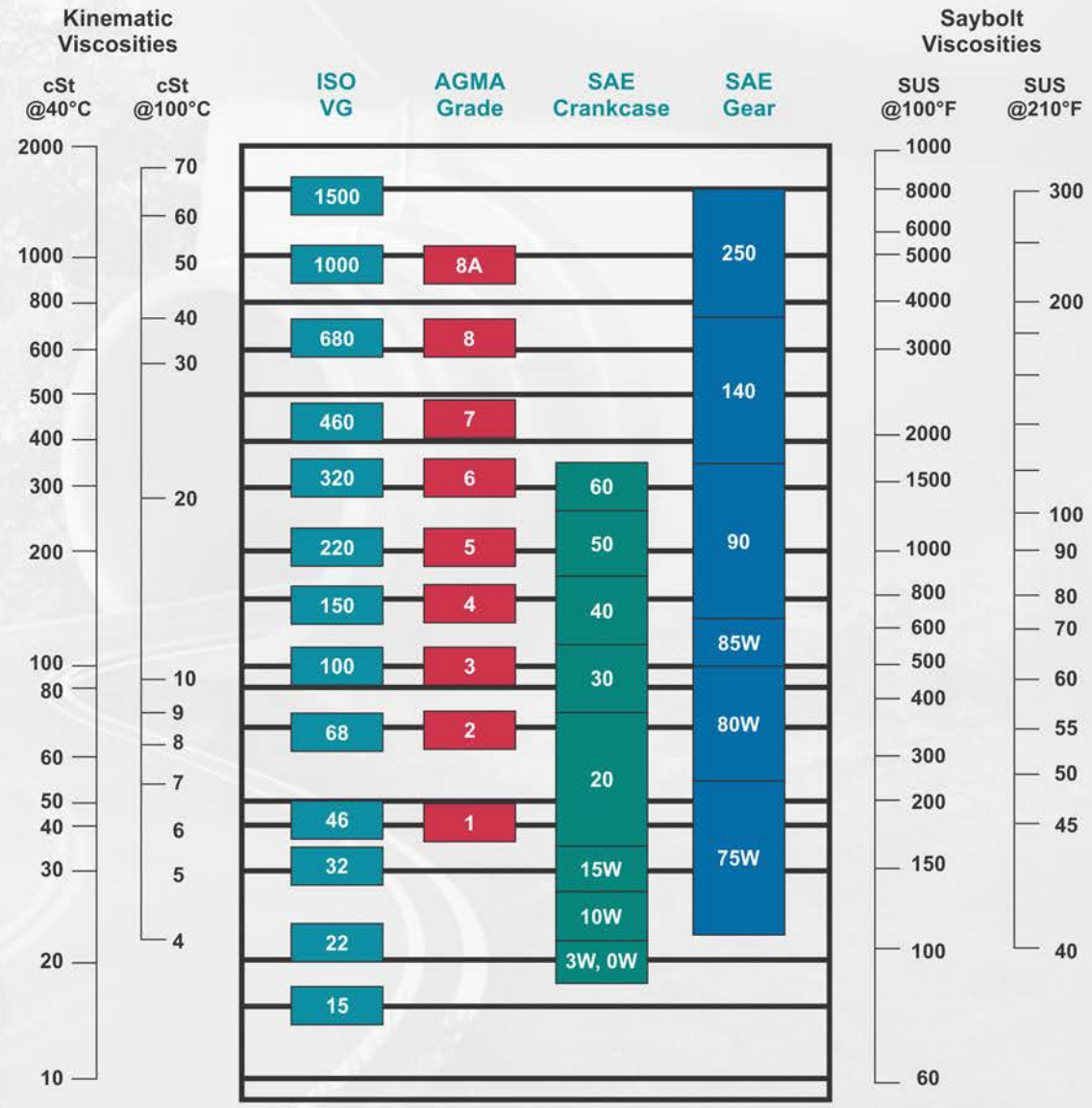
## SAE VISCOSITY GRADE

### What is SAE Viscosity Grades? (Resistance to Flow)

The society of Automotive Engineers (SAE) standard oil classification system (SAE J300) categorizes oils according to their viscosity (via a numbering system such as SAE 10W, SAE 30, SAE 15W-40, etc.)

Each of the viscosity grades or numbers has limits on the viscosity of the oil at given temperatures. For viscosity grades classified with a "W", the oils' viscosity has been tested to verify the oils' flow under specified low temperatures. Therefore the "W", in an oil viscosity grade is commonly understood to mean that the oil is suitable for winter service. For grades without the W, the oil viscosity is defined at 100 C only. The attached chart indicates the ratings of the various oil viscosity grades.

### COMPARATIVE VISCOSITY CLASSIFICATIONS







OFFICIAL OEM APPROVALS



PCMO



PCDO/HDDO





## INTRODUCTION TO ATLANTIC GREASE & LUBRICANT LLC

- Established in 1940s as a trading enterprise dealing with oil and its by-products.
- Continuously expanding portfolio which includes local brands as well as multinational brands.
- In 1987 founded it's first lubricant manufacturing plant.
- Today - vertically integrated company with 5 manufacturing units, located strategically across the region and overseas.
- Currently employs 300 employees.
- Client network ranges from large-scale distributors to mid-size wholesalers and consumers.
- Started developing lubricant local market in 2018.



## COMPANY INFORMATION

Average monthly turnover - 5 million liters  
Finished product – 60% own brand(Atlantic) and 40% -third party branding  
Export to over 80 countries worldwide  
Major export markets:

- NORTH AMERICA
- SOUTH AMERICA
- EUROPE
- AFRICA
- MIDDLE EAST
- AUSTRALIA
- ASIA

## ATLANTIC SYNTHECH ULTRA POWER ENGINE OIL SAE 5W-30 API SN/CF (Fully synthetic motor oil- MID SAPS technology)

### DESCRIPTION

Atlantic Synthech Ultra Power Engine Oil SAE 5W-30 is the strongest and most advanced range of engine oils. It is manufactured using the latest advances in mid SAPS (Sulphated ash, Phosphorus and Sulphur) additive technology intended for lubrication of gasoline and diesel light vehicle engines. This high- performance lubricant is specifically developed to ensure compatibility with post-treatment

### APPLICATIONS

Atlantic Synthech Ultra Power Engine Oil SAE 5W-30 is recommended for many types of modern vehicles where it will help provide unsurpassed performance even under very demanding driving conditions. Extensive cooperative development work with major manufacturers and the application of the latest lubrication technology make them suitable for the latest engine technologies including Turbochargers, Direct Injection, Diesels (without DPF) and Hybrids, High performance engines under most operating conditions, from mild to extreme.

### PROPERTIES

Atlantic Synthech Ultra Power Engine Oil SAE 5W-30 is a high performance engine oil specifically developed to provide the highest fuel economy and lowest CO2 emissions. This result from a laboratory synthesis of precisely controlled ingredients created by oil engineers, scientists and chemists. When combined with a high-performance additive package, this results in an oil with the highest levels of lubrication and engine protection, generally offering better protection at startup, better cleansing qualities, enhanced durability and better protection against heat buildup.

### PRODUCT FEATURES & BENEFITS

- Maximizes engine life
- Low oil consumption
- Excellent engine cleanliness and protection
- Guaranteed protection from oil-related engine failure
- High resistance to 'shear' and viscosity loss in high stress areas
- Maximizes power and performance
- Lower impact emissions
- Exceptional resistance to oxidation
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures
- Outstanding cold flow properties for reduced wear at start up



### FULLY SYNTHETIC

API SN,SN/CF, SM, SL, CF, ACEA C3

Meets or exceeds:

MB-Approval 229.31,229.51,226.5,  
VW505.00,505 01, Renault RN0700/710,BMW  
Longlife-04, Porsche A40,GM Dexos2



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	5W-30
Product code	INF6003-C3
Density at 15°C, g/ml, ASTM D4052	0.855
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6250@-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	69.43
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	11.93
Viscosity Index, ASTM D2270	170
Flash Point (COC), °C, ASTM D92	228
Pour Point, °C, ASTM D97	-42
Total Base Number, mg KOH/g, ASTM D2896	7.9
Sulphated Ash, %wt, ASTM D874, max	0.97



## ATLANTIC SYNTHECH ULTRA SUPER MOTOR OIL SAE 5W-40 API SN/CF (Fully Synthetic Engine Oils- Full SAPs)



### FULLY SYNTHETIC

International Standards : API SN/CF, ACEA: A3/B3-16, A3/B4-16  
 OEM Approvals : MB Approval 229.5 (SAE 5W-40) Meets or exceeds : PORSCHE A40, MB-229.3, MB 226.5, BMW Longlife-01, Renault RN0700 /RN0710, VW/Audi 502.00/505.00 Meets quality requirements of most gasoline engine manufacturers in the USA, Europe, Japan and Korea



### DESCRIPTION

Atlantic Synthech Ultra Super Motor Oil SAE 5W-40 API SN/CF is premium performance, multi-grade motor oils formulated from selected synthetic base fluids and race-proven additive technology optimized to provide complete engine protection plus ultimate performance under all operating conditions for passenger cars with gas and diesel engines with extended drain intervals beyond 229.3 oils.

### APPLICATIONS

ATLANTIC SYNTHECH ULTRA SUPER MOTOR OIL SAE 5W-40 API SN/CF is top-tier motor oils designed for naturally aspirated Gasoline engines, LPG and Diesel engines in passenger cars, light truck gasoline and diesel engines, gasoline and diesel powered RV and SUVs(Sport Utility Vehicles), Common Rail Direct Injection engine in passenger cars, Passenger cars with high speed, four-stroke, turbocharged and EGR, DPF, Four-stroke gasoline engines in motorcycles and portable power equipment where the manufacturer recommends conventional passenger car motor oils.

### PROPERTIES

ATLANTIC SYNTHECH ULTRA SUPER MOTOR OIL SAE 5W-40 API SN/CF is high performance engine oils formulated for highly tuned four cylinder and latest technology engines that operate at higher temperatures with exceptional characteristics ensuring that all engine components from the valve train to the bearings are fully lubricated to provide the strength for maximum engine performance. Specifically developed to provide the highest fuel economy and lowest CO2 emissions & boosted with fluid Titanium technology, its film strength is doubled preventing oil film breakdown and reducing friction.

### PRODUCT FEATURES & BENEFITS

- Longer intervals between oil changes
- Extends engine life
- Easier starts in very cold weather
- Lower impact emissions`
- Excellent engine cleanliness and protection
- Excellent engine protection, particularly against wear of the distribution system
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures

TYPICAL TECHNICAL PROPERTIES	
Viscosity Grade, SAE J300	5W-40
Product code	0125335 HT
Density at 15°C, g/ml, ASTM D4052	0.855
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6350 @-30°C
Kinematic Viscosity at 40°C, mm²/s, ASTM D445	91.75
Kinematic Viscosity at 100°C, mm²/s, ASTM D445	14.5
Viscosity Index, ASTM D2270	165
Flash Point (COC), °C, ASTM D92	230
Pour Point, °C, ASTM D97	-45
Total Base Number, mg KOH/g, ASTM D2896	10.1
Sulphated Ash, %wt, ASTM D874, max	1.2



## ATLANTIC SYNTHECH MOTOR OIL SAE 5W-40 API SN/CF

### DESCRIPTION

Atlantic Synthech Moto Oil SAE 5W-40 API SN/CF is an enhanced - premium semi-synthetic motor oils meeting the latest industry engine oil specifications. They are designed to provide an excellent level of protection and performance under the most demanding conditions.

### APPLICATIONS

Atlantic Synthech Moto Oil SAE 5W-40 API SN/CF is formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for - Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans. Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers & High Performance Engines.

### PROPERTIES

Atlantic Synthech Motor Oil SAE 5W-40 API SN/CF is a high performance industry proven product so you can trust that you will get the performance you want from your vehicle. Low friction semi-synthetic formulation increases engine efficiency and offers greater fuel economy & also helps to promote long engine life.

### PRODUCT FEATURES & BENEFITS

- Superior engine protection during start up
- Superior engine wear protection
- Minimizes sludge formation
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Can be used in both Diesel and LPG engines
- Provides improved fuel economy
- Suitable for hydraulically actuated injectors
- Safe for wet clutch motorcycles
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures



### SYNTHETIC BLEND

API SN/CF, SM, ACEA: A3/B3, A3/B4, JASO MA2 Meets or exceeds: Opel GM-LL-A/B-025, RN0700, Rn0710, MB 29.3/229.5 VW 502.00/505.00, Porche A40. Meets quality requirements of most gasoline engine manufacturers in the USA, Europe, Japan and Korea.



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	5W-40
Product code	12411AL
Density at 15°C, g/ml, ASTM D4052	0.859
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6000@-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	88.40
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.26
Viscosity Index, ASTM D2270	167
Flash Point(COC), °C, ASTM D92	224
Pour Point, °C, ASTM D97	-42



## ATLANTIC X GASOLINE ENGINE OIL SAE 10W-40 API SN

### DESCRIPTION

Atlantic X Gasoline Engine Oil SAE 10W-40 API SN is an enhanced-premium synthetic formula motor oil meeting the latest industry engine oil specifications. They are designed to provide an excellent level of protection and performance under the most demanding conditions.

### APPLICATIONS

Atlantic X Gasoline Engine Oil SAE 10W-40 API SN is formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for - Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans, Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers & High Performance Engines.



### SYNTHETIC BLEND

API SN, ACEA: A3/B4,C3, ILSAC GF-5,  
GF-4, JASO SG+



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	10W-40
Product code	12413AL
Density at 15°C, g/ml, ASTM D4052	0.87
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6600 @-25°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	95
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.3
Viscosity Index, ASTM D2270	155
Flash Point(COC), °C, ASTM D92	224
Pour Point, °C, ASTM D97	-36
Total Base Number, mg KOH/g, ASTM D2896	>8
NOACK volatility, at 250 °C, max (% weight loss),ASTM D5800	13
Viscosity HTHS at 150°C (mPa.s), ASTM D4683	>3.5

## ATLANTIC X ENGINE OIL SAE 20W-50 API SJ/CF

### DESCRIPTION

Atlantic X Engine Oil is a premium high performance multigrade engine oil formulated from high quality base oils combined with modern performance additives to help provide long engine life and protect critical engine parts from lubricant related failures for up to 5,000 miles, providing wide temperature range engine protection.

### APPLICATIONS

Atlantic X Engine Oil is suitable for petrol engines fitted with conventional carburetors and for naturally aspirated or turbo-charged indirect injection diesel engines (passenger cars and light industrial) vehicles. It could be used in all operating conditions (city traffic, road, motorways), whatever the season.



API SN/CF, SM/CF, SL/CF, SJ/CF, SG/CF, SG/CD, SF/CD  
ACEA: A3/B3, A2/B2, JASO MA2 MA/ , JASO MB  
RECOMMENDED FOR USE: Ford, GM, PSA, BMW, VW, Audi  
and Mercedes-Benz



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	20W-50
Product code	12427AL
Density at 15°C, g/ml, ASTM D4052	0.893
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	8000 @-15°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	176.76
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	19.51
Viscosity Index, ASTM D2270	127
Flash Point(COC), °C, ASTM D92	238
Pour Point, °C, ASTM D97	-24
Total Base Number, mg KOH/g, ASTM D2896	10.2



## ATLANTIC TOP FLEET LOW SAP LONG DRAIN ENGINE OIL SAE 5W-40 CK 4 (INF D3337-IME 1801024-A)



### DESCRIPTION

The state-of-the-art wear-reducing additives contained within this synthetic engine oil are engineered to combine stable oil performance with excellent engine protection, resulting in extended drain intervals without ever compromising on engine protection. The ultra-thin protective oil film retains its excellent protective properties over a wide range of temperatures. Furthermore, the engine oil has high shear resistance, cutting down on maintenance costs by further extending drain intervals.

### APPLICATIONS

Both off and on-road heavy-duty applications with or without turbochargers, superchargers or after-treatment systems can be serviced with this engine oil. It meets the specifications of a wide range of high-demanding specifications including the Scania LDF-4. Thanks to its backward compatibility, this versatile engine oil can be used in both modern and older engines. It is compatible with emission control technology EURO IV, V and VI for trucks; as well as stage IIIB, IV and Tier 4i, 4f for heavy-duty off-road.

### PROPERTIES

Aftertreatment protection: full aftertreatment system protection. Fuel economy: superior fuel economy and CO<sub>2</sub> reduction. Total engine protection: outstanding engine cleanliness and durability.

### PRODUCT FEATURES & BENEFITS

This low viscosity engine oil offers complete engine protection and cleanliness over an extended period of time. It enables a wide range of vehicles to optimize engine performance whilst extending oil drain intervals.

ACEA E4, E6, E7, E9, API CK-4  
MB-Approval 228.51/228.52/228.31(OEM approved)  
MAN M3271-1, MAN M3477, MAN M3775, MTU Oil Category 2.1, MTU Oil Category 3.1, DEUTZ QDC-IV-18 LA, VOLVO VDS-4.5,



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	5W-40
Product code	D3337-INF-A
Density at 15°C, g/ml, ASTM D4052	0.874
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6000 @-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	95
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.5
Viscosity Index, ASTM D2270	155
Flash Point (COC), °C, ASTM D92	228
Pour Point, °C, ASTM D97	-39
Total Base Number, mg KOH/g, ASTM D2896	13.4
Sulphated Ash, %wt, ASTM D874, max	0.96



## ATLANTIC SYNTHECH TURBO ENGINE OIL SAE 5W-30 API CJ-4



### FULLY SYNTHETIC

API CJ-4, API SN, ACEA: E9, E7, E6, E4, JASO: DH2  
 Meets and exceeds: Caterpillar: ECF-3, Cummins: CES 20081, DDC PGOS 93K218, Mack: EO-O Premium Plus, MB Approval: 228.31, MB 228.51, Volvo: VDS-4, MAN M 3271-1/3477/3575, MTU Oil Category 2.1/3.1, RVI RLD-2/RLD-3, Deutz DQC IV-10 LA Meets quality requirements of most diesel engine manufacturers in the USA, Europe, Japan and Korea.



### DESCRIPTION

Atlantic Synthech Turbo Engine Oil SAE 5W-30 is a fully synthetic performance heavy duty diesel engine oil featuring “Low-SAPS” additive technology for increased compatibility with the latest exhaust emissions control systems while delivering energy savings. Utilizing state-of-art technology helps deliver exceptional performance in modern low emissions engines, including refrigerated units, as well as older, well-maintained engines.

### APPLICATIONS

Atlantic Synthech Turbo Engine Oil SAE 5W-30 is recommended for use in all super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR). These applications include the following:

- On-highway engines operating in both high speed/high load and stop-and go conditions
- Off-highway engines operating in severe low speed/heavy load conditions
- Virtually all diesel powered equipment from American, European, and Japanese equipment builders.
- High performance gasoline engines and mixed fleets
- Refrigeration units

### PROPERTIES

Atlantic Synthech Turbo Engine Oil SAE 5W-30 helps to maintain outstanding performance at significantly higher temperatures than other high performance diesel engine oils. It is also fully compatible with conventional oils. Use of selected low-viscosity synthetic base oils further energizes the oil’s protective capability that promotes fuel-economy performance with no compromise in durability:

### PRODUCT FEATURES & BENEFITS

- Meets or exceeds demanding specifications of major OEMs
- High thermal and oxidation stability
- Enhanced film strength at high temperatures helps to reduce engine scuffing and bore polishing
- Exceptional low temperature pumpability helps easy engine start-up and helps to reduce wear
- Cleaner engines and longer component life
- Stay-in-grade shear stability
- Wear protection and reduced oil consumption; helps to maintain viscosity in severe, high temperature service

TYPICAL TECHNICAL PROPERTIES	
Viscosity Grade, SAE J300	5W-30
Product code	12457-AL
Density at 15°C, g/ml, ASTM D4052	0.85
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6000 @-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	64.32
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	11.06
Viscosity Index, ASTM D2270	165
Flash Point (COC), °C, ASTM D92	224
Pour Point, °C, ASTM D97	-42
Total Base Number, mg KOH/g, ASTM D2896	12.8
Sulphated Ash, %wt, ASTM D874, max	0.98



**ATLANTIC SYNTHECH TOP FLEET HDDEO SAE 5W-40 API CJ-4**  
(Synthetic Heavy-Duty Diesel Engine Oil - Longer Oil Life and Service Intervals. - Low SAPS technology)



**SYNTHETIC**

API CJ-4, ACEA E6, E7, E9  
Volvo VDS-4, CNG, RVI RLD-3, Cat ECF-3, MAN 3677,  
MB-Approval 228.51, Meets DAF Euro VI requirements,  
MTU Oil Category 3.1, Cummins CES 2008, Mack EO-O  
Premium Plus, JASO DH-2, For Iveco trucks requiring  
ACEA E6, E7, E9, Deutz DQC IV-10 LA



**DESCRIPTION**

ATLANTIC SYNTHECH TOP FLEET HDDEO SAE 5W-40 CJ-4 is a technologically advanced heavy duty diesel engine oil for use in highly rated diesel engines meeting Euro I to Euro VI emission requirements. It is suitable for engines with or without particulate filters, for most EGR engines and for most engines fitted with SCR NOx reduction systems. It is strongly recommended for engines fitted with particulate filters and is designed for use in combination with low sulphur diesel fuel.

**PRODUCT FEATURES & BENEFITS**

- Delivers up to 45% extra performance reserve that fights oil breakdown and also adapts to higher temperatures and pressures for longer useful oil life.
- Tested for extended drains up to 120,000 km.
- Maintains the efficiency of exhaust after-treatment systems ensuring continued compliance with emissions legislation.
- Certified CO2 neutral according to the internationally applicable PAS2060 standard

TYPICAL TECHNICAL PROPERTIES	
Viscosity Grade, SAE J300	5W-40
Product code	INF3336-D2
Density at 15°C, g/ml, ASTM D4052	0.85
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6000 @-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	97.9
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.5
Viscosity Index, ASTM D2270	153
Flash Point (COC), °C, ASTM D92	224
Pour Point, °C, ASTM D97	-42
Total Base Number, mg KOH/g, ASTM D2896	0.9
Sulphated Ash, %wt, ASTM D874, max	12.8



## ATLANTIC SYNTECH TURBO SAE 15W-40 API CJ-4/E9



### SYNTHETIC BLEND

API CJ-4, CI-4, CH-4/SN, ACEA E9



### DESCRIPTION

Atlantic Syntech Turbo SAE 15W-40 CJ-4/E9 is a technologically advanced heavy duty diesel engine oil for low emission engines operating on high temperature using low sulphur fuel and fitted with exhaust after treatment devices such as Three Way Catalyst (TWC), Diesel particulate filters (DPF), Selective Catalyst Reduction (SCR), Diesel Particulates & Nitrous-oxide Reduction (DPNR), Exhaust Gas Recirculation (EGR). Product is developed to comply low emission norms EURO I,II,III, IV & V and extended drain intervals.

### APPLICATIONS

- Heavy duty Diesel Vehicles is fitted with state-of-the art exhaust after treatment system to meet low emission requirements EURO IV & V
- Compatible with other engine oils but recommended not to mix in order to enhance the life of exhaust after treatment devices.
- Long Drain capability
- Excellent soot dispersancy, piston deposits and oxidation control

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	152-W40
Product code	INF3336-3
Density at 15°C, g/ml, ASTM D4052	0.874
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6400 @-20°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	120
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	15.5
Viscosity Index, ASTM D2270	136
Flash Point (COC), °C, ASTM D92	218
Pour Point, °C, ASTM D97	-36
Total Base Number, mg KOH/g, ASTM D2896	0.99

## ATLANTIC X DIESEL ENGINE OIL SAE 10W-40 API CI-4



### DESCRIPTION

Atlantic X Diesel Engine Oil SAE 10W-40 is a multi-grade Heavy Duty Diesel Engine Oil formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced product technology offers a medium extended drain formulation that helps maximize engine durability.

### APPLICATIONS

Atlantic X Diesel Engine Oil SAE 10W-40 is recommended for use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries.

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	40
Product code	0423533HT
Density at 15°C, g/ml, ASTM D4052	0.874
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6250 @-25°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	91.2
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.5
Viscosity Index, ASTM D2270	152
Flash Point (COC), °C, ASTM D92	226
Pour Point, °C, ASTM D97	3_3
Total Base Number, mg KOH/g, ASTM D2896	11.0

API CI-4, CH-4, SL, SJ, ACEA -A3/B4-16, E7-14, Global-DHD-1, JASO-DH-1 Meets or exceeds : MB-228.3 , DEUTZ -DQC-III-10, Renault VI RLD-2, Volvo VDS-3, Mack EO-N, MAN-M-3275-1 (MULTI GRADE)-TUC 0028/15, Detroit Diesel 93K21, MTU Type 2, CUMMINS CES 20078,77, CAT ECF-2, ECF-1-a, MB 229.1, MB 228.1 Meets quality requirements of most diesel engine manufacturers in the USA, Europe, Japan and Korea





## ATLANTIC X HEAVY DUTY DIESEL ENGINE OIL SAE 15W-40 API CI-4



### DESCRIPTION

Atlantic X Heavy Duty Diesel Engine Oil SAE 15W-40 API CI-4 is a conventional multi-grade Heavy Duty Diesel Engine Oil formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced product technology offers a medium extended drain formulation that helps maximize engine durability.

### APPLICATIONS

Atlantic X Heavy Duty Diesel Engine Oil SAE 15W-40 API CI-4 is recommended for use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries including: construction, mining, quarrying, and agriculture & mixed fleet applications.

API CI-4, CH-4, CG-4, CF-4,CF ACEA -A3/B4-10, E7-10, E2,E3,E4,E5,E6, Global-DHD-1, JASO-DH-1  
MEETS OR EXCEEDS : MB-228.3 , DEUTZ -DQC-III-10, Renault VI RLD-2, Volvo VDS-3, Mack EO-N, Mack OE-M+, MAN-M-3275-1 (MULTI GRADE)-TUC 0028/15, Detroit Diesel 93K215, MTU Type 2, CUMMINS CES 20078,77,76,75,72,71, CAT ECF-2, ECF-1-a, ZF TE-ML 07C, MIL-PRF-2104H/NATO O-1236, MB 229.1, Allison C4  
Meets quality requirements of most diesel engine manufacturers in the USA, Europe, Japan and Korea



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	15W-40
Product code	0423536HT
Density at 15C, g/ml, ASTM D4052	0.88
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	5600@-20C
Kinematic Viscosity at 40C, mm <sup>2</sup> /s, ASTM D445	106.2
Kinematic Viscosity at 100C, mm <sup>2</sup> /s, ASTM D445	14.81
Viscosity Index, ASTM D2270	145
Flash Point(COC), °C, ASTM D92	220
Pour Point, °C, ASTM D97	-36
Total Base Number, mg KOH/g, ASTM D2896	10.8

## ATLANTIC X DIESEL ENGINE OIL SAE 15W-40 API CF-4/SG



### DESCRIPTION

Atlantic X Diesel Engine Oil SAE 15W-40 API CF-4/SG is a conventional multi-grade Heavy Duty Diesel Engine Oil formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced product technology offers a medium extended drain formulations that helps maximize engine

### APPLICATIONS

Atlantic X Diesel Engine Oil SAE 15W-40 API CF-4/SG is recommended to use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries including: construction, mining, quarrying, and agriculture & mixed fleet applications.

API CF-4/SG, SJ, CF ACEA E2-96, A2-96/B2-98



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	15W-40
Product code	0423536HT
Density at 15°C, g/ml, ASTM D4052	0.875
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6800@-20°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	104.65
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.36
Viscosity Index, ASTM D2270	140
Flash Point(COC), °C, ASTM D92	220
Pour Point, °C, ASTM D97	-30
Total Base Number, mg KOH/g, ASTM D2896	7.6

## ATLANTIC X DIESEL OIL SAE 40 API CD



### DESCRIPTION

Atlantic X Diesel Oil SAE 40 API CD is a high quality monograde oil, suitable for diesel engines (supercharged or naturally aspirated) and some gasoline engines in all conditions. This monograde oil is particularly recommended for diesel engines of trucks, equipment for public works and for mixed fleets of trucks and cars.

### APPLICATIONS

This oil can be used for most diesel engines with or without a turbo and 4T-gasoline or LPG engines where an API class SF is required. This grade can also be used as a detergent in hydraulic oil.

### PRODUCT FEATURES & BENEFITS

- Detergent /dispersant properties to keep engine part clean and particular prevent black Sludge formation and the buildup particles.
- Thermal and oxidation stability
- Very good dirt carrying capacity
- Allows longer oil drain intervals
- Maximum power out put
- Reduced Maintenance costs
- Extends the engine's service life

API CD, MIL -L-2104 D, MIL -L-46152 B, MIL -L-2104 C, MB 227.0



#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	40
Density at 15°C, g/ml, ASTM D4052	0.892
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	148.5
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.7
Viscosity Index, ASTM D2270	98
Flash Point(COC), °C, ASTM D92	240
Pour Point, °C, ASTM D97	-9
Total Base Number, mg KOH/g, ASTM D2896	6.1



## ATLANTIC SYNTHECH ULTRA SUPER 4T MOTOR OIL SAE 10W-40 API SM JASO MA2 (Fully Synthetic 4-Stroke Motor Cycle Oil)



**FULLY SYNTHETIC**  
API SM, SL, SH, SG, JASO MA, MA2



### DESCRIPTION

Atlantic Synthech Ultra Super 4t Motor Oil SAE 10W-40 API SM JASO MA2 is a fully synthetic superior performance premium engine oil formulated with the latest additive technology including \*FULL ZINC +(exceeding 1800+ ppm levels) for maximum engine, gearbox & clutch protection against wear, corrosion, oil oxidation, piston deposits and sludge under all conditions. It meets the requirements of API SM and JASO Ma2.

### APPLICATIONS

Atlantic Synthech Ultra Super 4t Motor Oil SAE 10W-40 API SM JASO MA2 is designed for use in modern four stroke road & sports bikes, dirt & enduro bikes, ATV's/Quad bikes and 4 stroke scooters that require a full synthetic engine oil. It is especially suited to medium and large capacity V Twin and opposed cylinder engines. It can also be used in transmissions with dry or wet clutch systems or where engine & gearbox oils are combined. It has optimum clutch slip prevention in these systems and exceeds JASO MA2 requirements. Also suitable for use in other four stroke engines such as stationary engines & generators or vehicles that require this grade and specification of engine oil and can be used with most petrol, racing & other conventional fuels.

### PROPERTIES

Atlantic Synthech Ultra Super 4t Motor Oil SAE 10W-40 API SM JASO MA2 motor oil provides superior oil film strength, heat resistance and oil shear protection. It provides superior oil film strength and heat resistance for the protection of engine compression & oil sealing rings, cylinder sleeve lubrication, bearing and valve train.

### PERFORMANCE FEATURES AND BENEFITS

- Maximum wear protection
- Minimum sludge formation & reduced piston deposits
- FULL ZINC + anti-wear additive package for ultimate engine wear protection
- MAXIMUM power and acceleration
- Suitable for wet clutch systems
- Trusted protection for performance engines
- LATEST oil technology for less wear, sludge & piston deposits
- Extends engine life by reducing formation of high temperature engine deposits

TYPICAL TECHNICAL PROPERTIES	
Viscosity Grade, SAE J300	10W-30
Product code	12446B-AL
Density at 15°C, g/ml, ASTM D4052	0.865
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5700 @-25°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	89.59
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	1340
Viscosity Index, ASTM D2270	151
Flash Point (COC), °C, ASTM D92	230
Pour Point, °C, ASTM D97	-36
Total Base Number, mg KOH/g, ASTM D2896	9.8
Sulphated Ash, %wt, ASTM D874, max	1.2



## ATLANTIC 4T MOTOR CYCLE OIL SAE 20W-50 API SL



### SYNTHETIC BLEND

API SL, SJ, SG, SG/CD, SF, JASO MA



### DESCRIPTION

Atlantic 4T Motor Cycle Oil SAE 20W-50 is a high performance conventional four-stroke motorcycle engine oils designed specifically for motorcycles to meet the requirements that automotive oils are not designed to handle. Premium base oils and advanced additives are used to meet special properties for proper performance and protection of wet clutch system, high RPMs and temperatures, and metals found in motorcycles to bring out the best in your machine.

### APPLICATIONS

Atlantic 4T Motor Cycle Oil SAE 20W-50 is primarily intended for general use on all types of four-stroke motorcycles and engines. It is suitable for all makes of 4-stroke bikes, both carburetor and fuel injected where API SJ (or below) and JASO MA or MA2 are recommended.

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	20W-50
Product code	12456AL
Density at 15°C, g/ml, ASTM D4052	0.893
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	8210@-15°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	167
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	18.8
Viscosity Index, ASTM D2270	127
Flash Point(COC), °C, ASTM D92	240
Pour Point, °C, ASTM D97	-24
Total Base Number, mg KOH/g, ASTM D2896	7.2

## ATLANTIC SYNTHECH 4T SCOOTER SAE 10W-40 API SN JASO MB (Synthetic Formula 4-Stroke Motor Oil)



### SYNTHETIC BLEND

API SN, SN/CF, SM, SL, SH, SG, JASO MB



### DESCRIPTION

ATLANTIC SYNTECH 4T SCOOTER SAE 10W-40 API SN JASO MB is a synthetic formula superior performance premium engine oil formulated with the latest additive technology including \*FULL ZINC +(exceeding 1800+ ppm levels) for maximum engine, gearbox & clutch protection against wear, corrosion, oil oxidation, piston deposits and sludge under all conditions.

### APPLICATIONS

ATLANTIC SYNTECH 4T SCOOTER SAE 10W-40 API SN JASO MB is designed for use in modern four stroke road & sports bikes, dirt & enduro bikes, ATV's/Quad bikes and 4 stroke scooters that require a synthetic engine oil. It is especially suited to medium and large capacity V Twin and opposed cylinder engines.

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	10W-40
Product code	12446B-AL
Density at 15°C, g/ml, ASTM D4052	0.865
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5700 @-25°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	89.59
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	13.40
Viscosity Index, ASTM D2270	151
Flash Point (COC), °C, ASTM D92	230
Pour Point, °C, ASTM D97	-36
Total Base Number, mg KOH/g, ASTM D2896	10.5
Sulphated Ash, %wt, ASTM D874, max	1.2



## ATLANTIC FULLY SYNTHETIC MULTI-VEHICLE ATF

### DESCRIPTION

Atlantic Fully Synthetic Multi-vehicle ATF is a technologically advanced, low viscosity, full synthetic lubricant based on carefully selected very highly refined base oils for in automatic transmissions with a high viscosity index, excellent oxidation stability, excellent friction and antiwear properties providing maximum fuel efficiency for modern automatic transmissions and meeting the requirements of most American, Japanese and European manufacturers.

### APPLICATIONS

Atlantic Fully Synthetic Multi-vehicle ATF is suitable for use in the latest generations of automatic transmissions and torque converters for most passenger cars, off-road vehicles and SUVs. Meets or exceeds the requirements of the JASO-1A performance standard and the latest ATF specifications of Ford and GM for use in vehicles.



### FULLY SYNTHETIC

HONDA DW-1, AISIN-WARNER-JWS 3324, AW-1, HYUNDAI NWS-9638 T5, SP -IV, SP H-IV, LAND ROVER LR 023288, BMW- M 1375.4, 83222152426, CHRYSLER 68157995AA, FIAT 9.55550-AV2, 9.55550-AV5, MB 236.12, JAGUAR 02JDE26444, MITSUBISHI ATF J3, MAZDA FZ, TOYOTA AUTO FL UID WS, FORD MERCON SP, MERCON LV, WSS -M2C924-A, NISSAN Matic -S, J, VW G 055 162, G 060 162, G 055 005, G 055 540

Meets or exceeds the quality requirements of most American, Japanese and European manufacturers.



#### TYPICAL TECHNICAL PROPERTIES

Product code	12711AT
Color, VISUAL	RED
Density at 15°C, g/ml, ASTM D4052	0.846
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	34.3
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	6.8
Viscosity Index, ASTM D2270	162
Flash Point(COC), °C, ASTM D92	210
Pour Point, °C, ASTM D97	-54

## ATLANTIC ATF DEXRON III

### DESCRIPTION

Atlantic ATF Dexron III is synthetic lubricant based on carefully selected highly refined base oils with a very high viscosity index for most automatic transmissions. The improved fluidity at low temperatures ensures optimum performance in all conditions. Its exceptional frictional characteristics provide smooth switching and driving comfort.

### APPLICATIONS

Atlantic ATF Dexron III is recommended for use in automatic transmissions, torque converters, power steering and hydraulic circuits, for which the manufacturers prescribe a product, which meets the General Motors ATF TYPE Dexron III or Dexron II E and Ford Mercon-requirements (use in GM automatic transmissions pre 2005).NB: Do NOT use where Dexron VI, Mercon V or Mercon SP or LV are required.



### SYNTHETIC BLEND



#### TYPICAL TECHNICAL PROPERTIES

	DEXRON III
Product code	12716AT
Color, VISUAL	RED
Density at 15°C, g/ml, ASTM D4052	0.855
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	34.55
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	7.1
Viscosity Index, ASTM D2270	175
Flash Point(COC), °C, ASTM D92	196
Pour Point, °C, ASTM D97	-42
Brookfield viscosity at -40°C, mPa.s, ASTM D2983	20,000



## ATLANTIC TRANS HD

(Commercial Automotive Transmission Oil)

### DESCRIPTION

Atlantic Trans HD Oils are extra high performance transmission and drive-train lubricants engineered to meet the rigorous specifications required by Caterpillar TO-4. This product line is uniquely designed to optimize the performance of power shift transmissions, gearboxes and final drives. In hydraulic applications, they provide maximum protection even in high-pressure systems. Combining selected base oils and an advanced additive system to deliver the precise performance parameters needed to maximize the productivity of construction, quarrying and mining equipment operating in severe conditions.

### PERFORMANCE FEATURES AND BENEFITS

- Optimized clutch-friction retention and slippage control
- Significantly improved clutch life compared to the best API CD / Cat TO-2 engine oils
- Top performance in wet brakes, excellent control of brake chatter
- Excellent pitting control and foam control protection



Caterpillar TO-4, ZF TE-ML-03, Vickers 35 VQ 25 pump test, Allison C-4(HD 10W & HD 30)



#### TYPICAL TECHNICAL PROPERTIES

SAE Grade	10W	30	50	60
Product code	12764GO	12765GO	12766GO	12767GO
Density at 15C, g/ml, ASTM D4052	0.873	0.897	0.905	0.915
ISO Viscosity Grade	32	100	220	320
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	39	100	195	340
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	6.9	11.6	18.3	25.2
Viscosity Index, ASTM D2270	97	96	96	96
Flash Point(COC), °C, ASTM D92	202	224	240	254
Pour Point, °C, ASTM D97	-36	-15	-15	-15

## ATLANTIC LITHIUM COMPLEX GREASE

### DESCRIPTION

Atlantic Lithium Complex Grease is made with high quality, lithium complex thickener having high water tolerance and mechanical stability, combined with excellent high temperature performance. These are ideally suited for application by centralized grease systems due to good resistance to oil separation under pressure mechanical stability. Atlantic Lithium Complex Greases provide excellent performance in anti-friction bearings and much longer life compared to Sodium or Lithium soap base greases. It is recommended for wheel bearings, earth moving equipment, gear couplings, electric motors and general industrial machinery.



AVAILABLE IN NLGI: 1, 2 & 3



#### TYPICAL TECHNICAL PROPERTIES

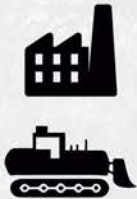
Product code	12806G	12807G	12808G
Thickener Type	Lithium	Lithium	Lithium
NLGI Classification	1	2	3
Texture	Smooth	Smooth	Smooth
Dropping Point °C, ASTM D 566	270	270	270
Worked Penetration @25°C 60 strokes, ASTM D 217	310/340	265/295	220/250
Wheel Bearing leakage after 6hrs @ 110°C gms, ASTM D 1263	<2	<2	<2
Water washout resistance %wt, ASTM D 1264	<5	<5	<5
Copper Strip Corrosion for 24hrs @100°C, ASTM D 4048	-ve	-ve	-ve



## ATLANTIC CALCIUM MULTIPURPOSE GREASE



AVAILABLE IN NLGI: 2 & 3



### PROPERTIES

Atlantic Calcium Multi-purpose Grease is specially formulated for vehicle chassis lubrication and protection. It is water resistant and contains extreme pressure and tackiness agents, making it particularly effective in severe application such as large trucks and off-highway equipment, used in the construction industry. It is an NLGI No. 2 and 3 grade grease making it pumpable from centralized greasing systems even at low temperatures.

TYPICAL TECHNICAL PROPERTIES	
NLGI Grade	2, 3
Colour, Visual	Golden
Texture	Smooth, Homogenous, Tacky
Thickner	Calcium
Worked Penetration @ 25°C, dm, D217 (60 Strokes)	265-295
Water Content % (max), D95	2
Drop Point °C, D566	101
Operating Temperature °C	0 TO 60
Copper Strip Corroison (max), D4048	1b
Pumpability For Long Distance	Fair
Mineral Oil Viscosity @ 40°C	110
Oil Separation %, D1742	5
Soap % wt in grease	15
Oil % wt in grease	84
Total Additives % wt	1

## ATLANTIC MULTIPURPOSE LITHIUM GREASE



AVAILABLE IN NLGI: 0, 2 & 3



### PROPERTIES

Atlantic Multipurpose Lithium Grease Ep is a series of high quality, lithium hydroxy stearate extreme pressure grease. It incorporates a lead free EP additive and is for use where surfaces are subjected to heavy or shock loading. It also contains oxidation and corrosion inhibitors, which help to ensure long service life of the grease and a high level of

### APPLICATIONS

These greases are for use in plain and rolling bearing operating under severe conditions of shock loading all types and in all kinds of machinery including electrical motors, machine tools, textile, paper making and wood working machines and construction equipment where the continuous operating temperatures are within the specified limits.

TYPICAL TECHNICAL PROPERTIES - PRODUCT CODE: 12802G			
	Lithium 12 Hydro stearate	Lithium 12 Hydro stearate	Lithium 12 Hydro stearate
Thickener Type	0	2	3
NLGI Classification	0	2	3
Texture	Smooth	Smooth	Smooth
Color, Visual	Pale Yellow	Pale Yellow	Amber
Dropping Point °C, ASTM D 566	180	194	198
Worked Penetration @25°C 60 strokes, ASTM D 217	355/385	265/295	220/250
Wheel Bearing leakage after 6hrs @ 110°C gms, ASTM D 1263	<2	<2	<2
Water washout resistance %wt, ASTM D 1264	<5	<5	<5
Copper Strip Corrosion for 24hrs @100°C, ASTM D 4048	1b	1b	1a
Four ball Wear, Scar(mm), D 2596 (max)	<230	<260	0.4
Free Acidity,ASTM D 128 % WT			0.2
Oil Separation @ 25°C, 24 hrs, ASTM D 1742			3
Wheel Bearing Leaching Test ,ASTM D 1263			4
Oxidation Stability 100 Hrs @ 100 °C,PSI 5, ASTM D 942			48
Operating Temp °C			-20 to 140°C
Additives %			3%



## ATLANTIC TOP GEAR OILS EP MULTIGRADE GL5

### DESCRIPTION

Atlantic Top Gear Oils Ep is a range of premium mineral automotive gear oil manufactured with modern extreme pressure additives and friction modifiers, meeting the requirements of API GL-5/6 and MT-1, as well as many other manufacturer specifications. It contains the correct dosage of limited-slip additive eliminating the need for an additional product when used in limited slip differentials. Meets the requirements of several automotive manufacturers for passenger cars and commercial trucks or buses.

### PERFORMANCE FEATURES AND BENEFITS

- Anti-shudder additive technology
- Superior thermal stability
- Longer drain intervals
- Compatible with all seal and metal types
- Minimises inventory
- High safety margin against foaming and corrosion
- Superior protection against scoring & spalling wear
- Maintains cleanliness & reduces abrasive wear



API GL-5/MT-1/PG-2, MIL-L-2105D, L-PRF-2105E, GM HN 1181/1187/1386/1561, China National GB 13895-1992, Ford ESW-M2C1006-B/1013-A/104-A/105-A/197-A  
Meets or exceeds the quality requirements of numerous vehicle manufacturers such as IVECO, MAN, SCANIA and VOLVO for heavyvehicles rear axles and final drive units.



#### TYPICAL TECHNICAL PROPERTIES

SAE Grade	80W90	85W140
Product code	12753GO	12763GO
Density at 15°C, g/ml, ASTM D4052	0.894	0.905
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	15	28.1
Viscosity Index, ASTM D2270	99	98
Flash Point(COC), °C, ASTM D92	210	215
Pour Point, °C, ASTM D97	-27	-18
Brookfield Viscosity, Max temp for Viscosity of 1,50,000 cP °C	-26	10000

## ATLANTIC TOP GEAR OILS API GL-4

### DESCRIPTION

Atlantic Top Gear Oils API GL-4 is an extreme-pressure lubricants for the lubrication of loaded gears for which an API GL-4 level of performance is required. It is suitable for all manuals transmission, transaxles, transfer boxes and steering gears in automotive and agricultural equipment where such oil is recommended.

### APPLICATIONS

Atlantic Top Gear Oils API GL-4 is designed for use in a wide range of gear units with normal bevel or helical gear design including synchronized manual gearboxes, transmissions and axles under moderately severe load and pressure conditions. It is applicable equally for passenger cars, light and heavy trucks, agricultural and building machinery even for topping up well run-in hypoid transmission units.



API GL-4, MIL-L-2105, MAN 341, MB.235.1 and ZF TE-ML-01,02 & 08



#### TYPICAL TECHNICAL PROPERTIES

SAE Grade	90	140
Product code	12756GO	12759GO
Density at 15°C, g/ml, ASTM D4052	0.90	0.902
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	197	352
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	17.5	25
Viscosity Index, ASTM D2270	96	93
Flash Point(COC), °C, ASTM D92	224	238
Pour Point, °C, ASTM D97	-18	-121



## ATLANTIC FRENO BRAKE FLUID



### DESCRIPTION

Atlantic Freno Brake Fluids are premium quality, non-silicone, non-mineral/petroleum based, fully synthetic brake fluid designed for use in a wide range of brake and clutch applications. It offers superior dry and wet boiling points and maintains viscosity in cold and hot environments.

### APPLICATIONS

**DOT 3** Suitable for use where the vehicle manufacturer specifies DOT 3 brake fluid.

### PERFORMANCE FEATURES AND BENEFITS

- Excellent braking response due to high boiling point of fluid.
- High wet boiling point ensures long term retention of fluid performance.
- Better performance for life of fluid.
- Compatible with all common brake system materials
- Borate esters to scavenge water and maintain ERBP as the fluid ages
- Anti-corrosion properties: complete brake system protection.
- Elastomer compatibility: no leakage or fluid losses.

DOT 5.1 - FMVSS 116 DOT 5.1, DOT 4 and DOT 3, SAE J1703/ J1704, ISO 4925 (Class 5.1, 4 & 3)  
DOT 4 - FMVSS, No. 116, DOT 4 and DOT 3, SAE J1703/J1704, ISO 4925 Class 4&3  
DOT 3 - FMVSS No 116 DOT 3, SAE J1703, ISO 4925 Class 3, AS 1960-2005 Grade 1



**NOTE:** Inter-mixing of brake fluids of different grades is not recommended. Inter-mixing may impact braking performance of some brake systems. This product is not miscible

#### TYPICAL TECHNICAL PROPERTIES

Product Code	DOT 3
Product Code	12522ASP
Density at 15°C, g/ml, ASTM D4052	1.030
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	1300
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	2.4
Dry ERBP (FMVSS No. 116) S.11, °C (min.)	240
Wet ERBP (FMVSS No. 116) S.12, °C (min.)	150
pH (FMVSS No. 116) S.14	9.0
Boron	-
Corrosion Test @ 100°C for 120hrs	Passes test

## ATLANTIC RADIATOR COOLANT



### DESCRIPTION

Atlantic Radiator Coolant is a specially formulated ready to use engine coolant, for both petrol and diesel engines, It is mixture of monoethylene glycol and selected chemical agents to provide outstanding all round protection.

### APPLICATIONS

Atlantic Radiator Coolant is suitable for the cooling systems of all types of passenger vehicles, 4WD's, light & heavy commercial vehicles, stationary engines and motorcycles. It can be used to top up both Organic Acid Technology (OAT) & Hybrid Type A anti-freeze/anti boil coolants as well as Type B inhibitor only solutions.

#### TYPICAL TECHNICAL PROPERTIES

Product Code	12525ASP
Specific Gravity 15.6°C (ASTM D 1122), g/mL	1.077
pH (ASTM D 1287)	9.0
Freeze Point 50% volume (ASTM D 1177), °C	-37
Reflux boiling point (ASTM D 1120), °C	106

AS2108-2004 Type A, ASTM D3306/4985, BS 6580, JIS K 2234-97, Class 2, Jaguar M97-B44D, Bentley, Caterpillar EC-1, Cummins 85T8-2/CESMG03, Chrysler MS-9769, Deutz AG 0199-99-1115/2091, Federal Standard O-A-548D, Fiat 955523/NC 956-16, Ford M97-B44A/B44D/51A, German Army TL6850-0038/1, GM 6277M/1825M/1899M, Holden HN2217/HN2043, Jenbacher TA 1000-0201, JI Case JIC 501, JIS K2234 (Japan), JCB STD 0088, JASO M325 (Japan), John Deere JDM H24, Komatsu KES 07.892, KSM 2142 (Korea), TMC RP329, Leyland BLS.22.AF.01, Liebherr MD 1-36-130, Mack 014 GS 17009, Mercedes MB 325.3/326.0/326.3 (Premix Only), Navistar B1 Type III, Mitsubishi ES-X64217, MTU MTL 5048, Renault 41-01-001Q Type D, Nissan NES M5059, Opel B 040 1065, QL 13D100, SAE J1034, Rover BLS.22.AF.01, SAAB GM6277, Scania T1.02-98 0813, UNE 26.361.88, Toyota Long Life TSK2601G, Vauxhall B 040 1065.



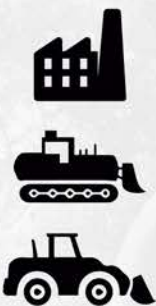
## ATLANTIC HYDRAULIC OILS

### DESCRIPTION

Atlantic Hydraulic Oils are supreme performance anti-wear hydraulic oils designed to satisfy a wide range of hydraulic equipment requirements. They were developed to meet the stringent requirements of severe hydraulic systems using high pressure, high output pumps as well as handling the critical requirements of other hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. Formulated with high quality base oils and a super-stabilized additive system that neutralizes the formation of corrosive materials & designed to work with systems operating under severe conditions where high levels of antiwear and film strength protection are needed, yet they are formulated to work where non-antiwear hydraulic oils are generally recommended.



AFNOR NF E 48-603 HM, ISO 6743/4 HM, DIN 51524 P2 HLP, CINCINNATI MILACRON P68, P69, P70  
Meets or exceeds : VICKERS M-2950S, -I-286, DENISON HF0, HF1, HF2 (T6H20C), HUSKY HS 207



#### TYPICAL TECHNICAL PROPERTIES

	32	46	68	100
Viscosity Grade, SAE J300	32	46	68	100
Product code	12562HF	12563HF	12564HF	12565HF
Appearance, Visual	B&C	B&C	B&C	B&C
Density at 15°C, g/ml, ASTM D4052	0.875	0.880	0.884	0.888
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	32	46	68	100
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	5.42	6.79	8.77	11.42
Viscosity Index, ASTM D2270	102	100	100	100
Flash Point(COC), °C, ASTM D92	228	232	242	254
Pour Point °C, ASTM D97	-27	-27	-21	-18
FZG 4-Square Load Support, DIN 51354, Fail Stage	12	12	12	12
Copper strip corrosion, 3 hrs @ 100°C, ASTM D130	1B	1B	1B	1B
Rust protection Proc B, ASTM D665	PASS	PASS	PASS	PASS

## ATLANTIC REFRIGERATION COMPRESSOR OIL 68 High Performance Refrigeration Compressor Oils

### DESCRIPTION

High performance lubricants formulated from extremely low wax naphthenic oil primarily intended for use in refrigeration compressors where an uninhibited oil is required. It is recommended for use in refrigeration compressors using ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochloro-fluorocarbon) refrigerants where the evaporator temperature ranges down to approximately -35°F or -37°C. It is compatible with most refrigerants. Atlantic Refrigeration Compressor Oil 68 is not recommended for use with HFC (hydrofluorocarbon) refrigerants.



AMMONIA, CFC AND HCFC SYSTEMS



#### TYPICAL TECHNICAL PROPERTIES

	68
ISO Viscosity Grade	68
Product code	12583IL
Density at 15°C, g/ml, ASTM D4052	0.91
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	68.0
Flash Point(COC), °C, ASTM D92	200
Pour Point, °C, ASTM D97	-33
Total Acid Number, ASTM D 974, mg KOH/g	0.03
Flocculation Point, R 12, DIN 51351, °C	-50



# PRODUCT COMPARISON CHART

CLASSIFICATION	ATLANTIC	PHOENIX	PETRON
PCMO Passenger Car Motor Oil	SUPER SYNTECH SAE 5W30 API SN/CJ4	ACCELERATE RACING 5W30 SN/CF C3	BLAZE RACING ULTRON RACE 5W40 API SN/CF (BR 800)
	SYNTECH GASOLINE E/O SAE 5W40 API SN/CF	ACCELERATE SYNTECH5W40 SN/CF A3/B4	BLAZE RACING SYNTHETIC BLEND 10W40 API SN/CF (BR 600)
	X GASOLINE E/OIL 10W40 API SN	-	-
	X GASOLINE E/OIL 20W50 API SN	ACCELERATE SUPER G 15W40 SN/SNPLUS	BLAZE RACING ULTRON TOURING 20W50 API SL/CF (BR 450)
HDDO Heavy Duty Diesel Oil	SYNTECH TURBO DIESEL E/OIL SAE 5W30 API C/J4/SN	ZOELO POWERTECH5W40 CJ-4/SN ACEAE9	REV-X ALL TERRAIN 5W40 API CJ-4/SM (RX 800)
	SYNTECH DEO SAE 15W40, API CJ-4/SM	ZOELO SYNTECH 10W30 CI-4	REV-X SYNTHETIC BLEND 10W40 API CI-4/SL (RX 600)
	X DIESEL E/OIL SAE 10W40 CI-4/SL	-	-
	X DIESEL E/OIL SAE 15W40 CI-4/SL	ZOELO EXTREME 15W40 CI-4/SL ACEAE7	REV-X TREKKER 15W40 API CI-4/SL (RX 400)
	X DIESEL E/OIL SAE 15W40 CF-4/SG	ZOELO 15W40 CD/SF	REV-X MULTIGRADE HD4X 15W40 API CF/SF
	DEO SAE 40, API CD/SF	ZOELO EXTRA 40 CF/SF	REV-X HD 40 API CF/SF
	X DIESEL E/OIL SAE 40 API CC-/SC	ZOELO DIESEL OIL API CC/SC SAE40	-
MCO Motorcycle Oil	SYNTECH MOTORCYCLE OIL 4T SAE 10W40 API SM JASO MA2	CYCLOMAX SYNTECH 4T 10W40 MA2/SL	SPRINT 4T SYNTHETIC BLEND 10W40 API SN/ JASO MA2 (SR 600)
	X MOTORCYCLE OIL 4T SAE 20W50 API SL JASO MA	CYCLOMAX TITAN 4T 20W40 MA2/SL	SPRINT 4T ENDURO 20W50 API SL JASO MA (SR 450)
	SYNTECH 4T SCOOTER SAE 10W40 API SN JASO MB	CYCLOMAX SCTR SYNTECH 10W30 MB/SL	SPRINT 4T SCOOTER OIL SYNTHETIC BLEND 10W40 API SL JASO MB (SC 600)
	SCOOTER GEAR OIL 80W90	CYCLOMAX SCOOTER GEAR OIL 80W90	SCOOTER GEAR OIL 15W40
AUTOMATIC TRANSMISSION FLUID	ATF DEXTRON III	PHOENIX ATF & PWRSTR FLUID DIII	PETRON ATF PREMIUM HTP
AUTOMOTIVE GEAR OIL	TOP GEAR OIL SAE 90 API GL-4	PHOENIX GEAR OIL 90 GL-4	PETRON GEP 90
	TOP GEAR OIL SAE 140 API GL-4	PHOENIX GEAR OIL 140 GL-4	PETRON GEP 140
	TOP GEAR OIL SAE 90 GL-5	-	-
INDUSTRIAL OILS	ATLANTIC TRANS HD 10W	ZOELO 10W CF/SF	-
	HYDRAULIC OIL AWT 68	ATLAS HYDRAULIC OIL AW 68	HYDROTUR AW 68
	HYDRAULIC OIL AWT 100	ATLAS HYDRAULIC OIL AW 100	-
	REFRIGERATION COMPRESSOR OIL 68 NAPTH	-	ZERFLO 68
GREASE	LITHIUM EP0	-	-
	LITHIUM COMPLEX EP2	PHOENIX EP2 LI-COM GREASE NLG2	ENERGREASE MX2
	LITHIUM COMPLEX EP3	-	-
	CALCIUM MP2	-	PETROGREASE MP2
	CALCIUM MP3	-	PETROGREASE MP3
BRAKE FLUID	BRAKE FLUID DOT-3	PHOENIX BRAKE AND CLUTCH FLUID DOT 3	PHOENIX BRAKE AND CLUTCH FLUID DOT 3

SHELL	CHEVRON	CASTROL	MOBIL	SK
HELIX ULTRA 5W40 API SN/CF	HAVOLINE PRO DS FULL SYNTHETIC 5W40	CASTROL EDGE	MOBIL 1	SK ZIC X9
HELIX HX7 5W40 API SN/CF	HAVOLINE SYNTHETIC BLEND 5W30	-	-	SK ZIC X7
-	-	CASTROL MAGNATEC	MOBIL SUPER 2000	SK ZIC X7
HELIX HX3 20W50 API SL/CF	HAVOLINE SN 20W50	CASTROL GTX MODEM	MOBIL SUPER 1000 X2	SK ZIC X5
RIMULA R6 LME 5W30	DELO SPORTS SYNTHETIC BLEND SAE 10W30 API CI-4	VECTON CJ-4	DELVAC 1	SK ZIC X9000
RIMULA R6 LME 5W30	DELO SPORTS SYNTHETIC BLEND SAE 15W40 API CI-4	VECTON CI-4	DELVAC SUPER 1300	SK ZIC X5000
-	-	-	-	SK ZIC X7000
RIMULA R4X 15W40 CI-4	DELO GOLD ULTRA 15W40 CI-4	VECTON CI-4	DELVAC MX	SK ZIC X7000
RIMULA R2 EXTRA 15W40 CF-4	DELO SILVER MG 15W40 CF-4	CRB	DELVAC SUPER	SK ZIC 3000
RIMULA R3+ 40 API CF	DELO SILVER 40	CASTROL SAE 40	DELVAC 1340	SK ZIC X3000 SAE 40
-	-	CASTROL SAE 40	DELVAC 1340	SK ZIC X3000 SAE 40
ADVANCE AX7 10W40 API SM JASO MA2	HAVOLINE SUPER 4T SEMI SYNTHETIC SAE 10W40 API SN JASO MA2	-	MOBIL 1 RACING 4T	SK ZIC M9 4T
ADVANCE AX5 15W40 API SL JASO MA	HAVOLINE SUPER 4T SAE 20W50 API SN JASO MA2	POWER 1 4T	EXTRA 4T	SK ZIC M7 4T
ADVANCE 4T SCOOTER 10W40 API SL JASO MB (AX7)	HAVOLINE SUPERMATIC 4T SEMI-SYNTHETIC SAE 10W40 API SN JASO MB	ACTIV SCOOTER	SUPER MOTO SCOOTER 10W40	SK ZIC M7 4AT
ADVANCE SCOOTER GEAR OIL 15W40	HAVOLINE SCOOTER GEAR OIL 80W90	CASTROL SCOOTER GEAR OIL 80W90	SUPER MOTO SCOOTER GEAR OIL 80W90	SCOOTER GEAR OIL 80W90
SPIRAX S1 ATF TASA	TEXAMATIC 1888	DEXRON III	MULTIPURPOSE ATF	SK ZIC ATF 3
SPIRAX S2 G 90	DELO GEAR EP4 90	-	MOBILUBE GX	SK ZIC GEAR EP
SPIRAX S2 A 140	DELO GEAR EP4 140	-	MOBILUBE GX	SK ZIC GEAR EP
-	-	-	-	-
ROTELLA 10W	URSA HYDRAULIC OIL 10W	-	MOBIL HYDRAULIC 10W	-
TELLUS S3 M	RANDO HD 68	HYSPIIN AWS 68	DTE 20 SERIES 68	SK ZIC SUPERVIS AW 68
TELLUS S3 M	RANDO HD 100	HYSPIIN AWS 100	DTE 20 SERIES 100	SK ZIC SUPERVIS AW 100
CLAVUS OIL 68	CAPELLA OIL 68	-	-	-
GADUS S3 V220C	-	-	MOBILGREASE XTC	SK ZIC ROYAL GREASE
GADUS S3 V220C	MULTIFAK EP	ENERGREASE MX2	MOBILGREASE XHP	SK WHEEL BEARING GREASE
GADUS S3 V220C	MULTIFAK EP	ENERGREASE MX2	MOBILGREASE XHP	SK WHEEL BEARING GREASE
GADUS S3 V220C	MARFAK MULTIPURPOSE	ENERGREASE MP	-	-
GADUS S3 V220C	MARFAK MULTIPURPOSE	ENERGREASE MP	-	-
PHOENIX BRAKE AND CLUTCH FLUID DOT 3	HAVOLINE BRAKE AND CLUTCH FLUID DOT 3	BRAKE FLUID DOT 3	BRAKE FLUID DOT 3	ZIC DOT 3



**ATLANTIC SYNTECH 4T SCOOTER FULLY SYNTHETIC MOTOR OIL SAE 5W-40 API SN JASO MB (Fully Synthetic 4T Engine Oil)**  
(Premium Synthetic 4-Stroke Motor Oils)



**FULLY SYNTHETIC**

API SN, JASO MB



**DESCRIPTION**

Atlantic Syntech 4t Scooter Fully Synthetic Motor Oil SAE 5W-40 API SN JASO MB is a fully synthetic engine oil used for scooters and maxi scooters, equipped with modern 4 cycle gasoline engines with dry disc clutch or automatic transmission, where JASO MB approved oil with SAE 5W-40 viscosity grade is required. The product is manufactured using highly stable synthetic base stocks and specially formulated additives packages with ZFM antifriction technology and contains special low ash additive package, which meets most stringent modern environmental standards. Atlantic Syntech 4t Scooter Fully Synthetic Motor Oil SAE 5W-40 API SN JASO MB has excellent HTHS stability and outstanding oxidation stability, thus providing reliable and effective protection of engine parts under high loads and high operating temperatures. Low volatility minimizes oil burnout. Detergent and disperse additives provide cleanliness of parts and extended engine durability. Atlantic Syntech 4t Scooter Fully Synthetic Motor Oil SAE 5W-40 API SN JASO MB prevents high temperature deposit buildup in combustion chamber and pistons.

**APPLICATIONS**

Atlantic Syntech 4t Scooter Fully Synthetic Motor Oil SAE 5W-40 API SN JASO MB is designed for use scooters and maxi scooters operating under increased loads in urban conditions, including those with frequent accelerations and long idling at the traffic lights with limited cooling of engines. Atlantic Syntech 4t Scooter Fully Synthetic Motor Oil SAE 5W-40 API SN JASO MB meets the requirements of JASO MB performance level. It is not suitable for use in motorcycles with wet clutch.

**PERFORMANCE FEATURES AND BENEFITS**

- Effective protection of loaded parts against wear
- Excellent oil film strength
- Outstanding low temperature pumpability
- Increased engine performance
- Reliable cold starts of engine without prior warm up
- Balanced formulation
- Reduction of oil burnout
- Reduction in harmful emissions

TYPICAL TECHNICAL PROPERTIES	
Viscosity Grade, SAE J300	5W-40
Product code	S1885INF-TOTCH
Density at 15°C, g/ml, ASTM D4052	0.845
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5550 @-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	89.2
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.5
Viscosity Index, ASTM D2270	170
Flash Point (COC), °C, ASTM D92	226
Pour Point, °C, ASTM D97	-42