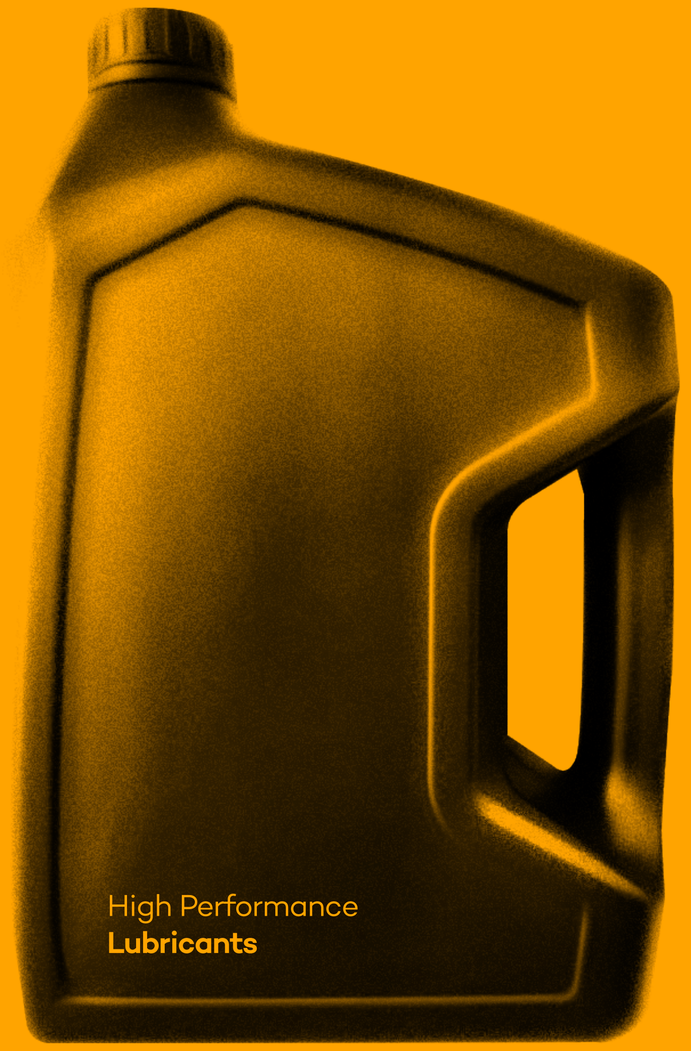
AMCO™

PRODUCT CATALOG

ISSUE 2023



www.amcolubricants.com

CONTENT

Letter from the Chairman

For as long as I can remember, there has always been a passion before my eyes which is to pave the way for my nation to be among the most advanced nations of the world in terms of business.

Despite the incredible changes that have taken place throughout the world and at my country's level, I believe the past is most meaningful to us for it shows us the surest path to take towards a new age of success.

Commerce is a diverse challenging pursuit that requires a different and creative approach to overcome the problems one encounters. Now, and as it has always been, it is crucial to ascertain the fundamental ingredients of success

Whilst fierce competition in the global lubricants market makes such a task increasingly challenging, I look confidently to the future, assured by the competencies within AMCO. With the legacy, dedication, and enthusiasm, which has resulted in what we are today, I can see more exciting times ahead!

Our customers are our most important asset; therefore, I reckon that holding ourselves to higher quality standards is our industry trademark to commit to our loyal customers' satisfaction. Considering this as our philosophy, AMCO has withstood the test of time.

Khalfan Mubarak Al Huwairib Chairman

Motto

“BLENDED TO PERFECTION”

History

Founded in 1963, AMCO has started as a General Trading and Contracting Company, with the primary activity of importing and distributing lubricants in the region.

Over the years, AMCO has developed powerful brand recognition and its lubricant products portfolio has gained importance and developed into the company’s main business interest. In the 1970s, the breakthrough came and success in this area resulted in the decision to specialize in lubricants. Five years from that significant date, AMCO was established. A relationship with a Dutch-based lubricant blending company enabled the marketing of its own brand of lubricant products. Successful business development in the 1980s resulted in AMCO purchasing a major shareholding in the Dutch plant and AMCO’s manufacturing base was consolidated.

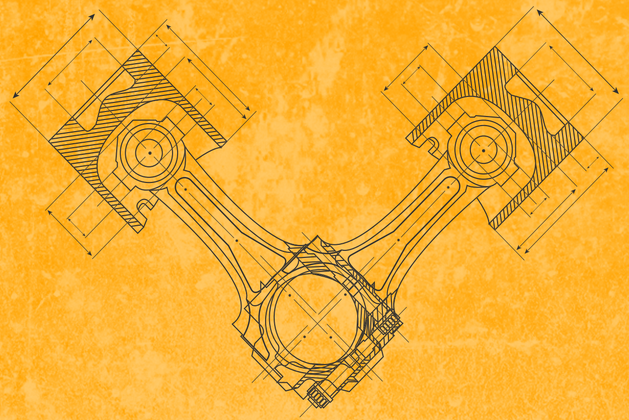
AMCO’s next big leap came with the opening of Jebel Ali Free Zone. It took the opportunity and constructed a new state-of-the-art LOBP in 1986. This innovation has made it possible to implement a global strategy based in the UAE for the production, research and marketing of AMCO products meeting world standards and specifications. Therefore, AMCO’s success owes much to its brand-loyal customers.

Ideas, dedication, and innovation have made AMCO what is today: a rebranded company meeting the latest technological advancement in the automotive and industrial lubricant industry.

Keeping our Core Mission intact and remaining at the industry’s forefront, we concentrate on premium quality, high-standard services, and competitive pricing.

We value your trust in AMCO products, thus, quality is constantly assured by our team of experienced professionals using nothing but premium material sources and advanced test methods to maintain high standards provided to our customers and to serve them better.

Our pricing pricing is simple - “Quality shall not be sacrificed to provide cheaper products.” We achieve cost-effective savings by improving the manufacturing process utilizing the most advanced technology and machinery.



PETROL ENGINE OIL

VELOX

TITANIUM

Applications

Recommended for use in all new high performance gasoline and diesel engines of European, American and Japanese vehicles.
Compatible with all modern passenger cars engine, fitted with emission control devices operating under extreme conditions.

Product Characteristics

Properties	Units	Value				Test Method
SAE Grade		0W20	0W30	0W40	5W30	
Specific Gravity @ 15 °C	g/cc	0.845	0.848	0.8485	0.85	ASTM-4052
Viscosity @40°C	mm2/s	45.3	63.2	76.1	64.3	ASTM D-445
Viscosity @100°C	mm2/s	8.58	11.3	13.3	10.8	ASTM D-445
Viscosity Index	–	165	170	170	160	ASTM D-2270
Flash Point, COC	°C	220	222	224	225	ASTM D-92
Base Number	mg KOH/gm	8	8.1	8.1	8.3	ASTM D-97
Pour Point	°C	-42	-39	-39	-39	ASTM D-2896
Sulphated Ash	Wt%	0.4	0.4	0.4	0.5	ASTM D-874
CCS @-30°C	–	-	-	-	5940	ASTM D-5293
CCS @-35°C	–	5800	5850	6180	-	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VELOX TITANIUM is a next-generation ultimate performance fully synthetic, low-friction engine oil engineered to meet and exceed the latest manufacturer specifications. Formulated using unique premium synthetic base oil and technologically advanced additive system, Velox Titanium ensures exceptional thermal and oxidation stability for peerless performance and extended drain interval under very hot and extremely cold driving conditions.
It is expertly engineered to combine durability and protection with low-viscosity and low friction for better fuel economy.

Benefits

- Excellent fluidity in extreme temperature conditions
- Low friction and low viscosity helping in fuel economy
- Reduced emissions, superior protection of exhaust emission control system
- Exceptional engine cleanliness protecting against engine sludge and vanish deposits
- Prevented viscosity and thermal breakdown
- Ultimate engine wear protection under extreme driving conditions

Performance levels

Meets and Exceeds:

- **API SP, SN+, SN RC, SN**
- **ILSAC GF-6A**
- **GM Dexos 1**

VELOX

PLATINUM

Applications

Formulated to operate in almost all types of conditions. Recommended for all types of modern vehicles, including high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines in passenger cars, SUVs, light vans and light trucks.

Product Characteristics

Properties	Units	Value			Test Method
SAE Grade		5W20	5W30	5W40	
Specific Gravity @ 15 °C	g/cc	0.85	0.85	0.855	ASTM-4052
Viscosity @40°C	mm2/s	44.5	62	90	ASTM D-445
Viscosity @100°C	mm2/s	8.3	10.2	14.7	ASTM D-445
Viscosity Index	–	156	150	160	ASTM D-2270
Flash Point, COC	°C	226	225	228	ASTM D-92
Base Number	mg KOH/gm	8.3	8.3	8.2	ASTM D-97
Pour Point	°C	-39	-39	-36	ASTM D-2896
Sulphated Ash	Wt%	0.6	0.5	0.6	ASTM D-874
CCS @-30°C	–	5800	5940	6010	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VELOX PLATINIUM is a semi synthetic lubricant formulated with high-quality base oils combined with advanced additive technology to meet high-performance requirements of the latest cars and trucks. It has been expertly engineered to deliver superior cleaning power, wear protection and outstanding performance. It resists degradation between oil changes, extending the time and mileage interval between oil changes. Advanced polymer technology provides the optimum viscosity and fluidity across a broad range of temperatures.

Benefits

- Improved oxidation stability, leading to lower deposit formation and cleaner engines
- Advanced additive package neutralizes corrosive particles
- Improved wear protection, leading to longer engine life
- Optimum fuel economy
- Low volatility, leading to lower oil consumption

Performance levels

Meets and Exceeds:

- **API SN, SN/CF**
- **ACEA A3/B3**
- **MB 229.3**
- **VW 502 00**
- **VW 505 00**

VELOX

GOLD

Applications

Recommended for passenger and commercial vehicles of every make and type, turbocharged or naturally aspirated but not equipped with DPF. Exceeds the performance requirements of most European, Japanese and American car manufactures.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		10W-40	10W30	
Specific Gravity @ 15 °C	g/cc	0.8603	0.8585	ASTM-4052
Viscosity @40°C	mm2/s	98	63	ASTM D-445
Viscosity @100°C	mm2/s	14.8	10.5	ASTM D-445
Viscosity Index	–	155	156	ASTM D-2270
Flash Point, COC	°C	225	225	ASTM D-92
Base Number	mg KOH/gm	8	8	ASTM D-97
Pour Point	°C	-33	-33	ASTM D-2896
CCS @-25°C	–	6800	6600	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VELOX GOLD is a new generation of high-performance automotive oils required by today's gasoline and diesel engines. Blended with the most advanced additive package, which enables it to give exceptional performance under most severe operating conditions. It provides effective protection against oxidation, wear, corrosion and remains stable under high-temperature operations.

Benefits

- Excellent deposit control
- Better Oxidation Stability At higher temperatures
- Excellent Shear Stability, maintain viscosity grade
- Excellent engine protection.
- Maintains a high order of engine cleanliness.
- Protects against rust, wear and sludge formation.
- Excellent cold Starting properties

Performance levels

Meets or Exceeds

- **API SN, SN/CF**
- **ACEA A3/B4**
- **MB 229.5**
- **VW 502 00**

VELOX

SILVER

Applications

Recommended for naturally aspirated petrol and diesel engines in passenger cars, SUVs, vans and light duty trucks suitable for both congested start-stop and highway driving environments formulated to operate in all extreme weather conditions.

Product Characteristics

Properties	Units	Value				Test Method
SAE Grade		10W30	10W40	15W40	20W50	
Specific Gravity @ 15˚C	g/cc	0.86	0.862	873	0.88	ASTM-4052
Viscosity @40°C	mm2/s	66	98	114	168	ASTM D-445
Viscosity @100°C	mm2/s	10.5	14.8	15.2	18.8	ASTM D-445
Viscosity Index	–	147	155	140	127	ASTM D-2270
Flash Point, COC	°C	226	225	228	230	ASTM D-92
Base Number	mg KOH/gm	8.3	8.3	8.2	8.3	ASTM D-97
Pour Point	°C	-33	-33	-27	-24	ASTM D-2896
Sulphated Ash	Wt%	0.8	0.8	0.9	1	ASTM D-874
CCS @-25°C	–	6800	6800	-	-	ASTM D-5293
CCS @-20°C	-	-	-	6800	-	ASTM D-5293
CCS @-15°C	–	-	-	-	8600	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VELOX SILVER premium quality engine oils provide everyday protection for automotive engines operating under most conditions, developed to the highest standards of lubricant quality, reliability and dependable protection. Formulated with a proprietary mixture of premium quality base oils with additive technology that provides superior engine protection, under a variety of operating conditions.

Benefits

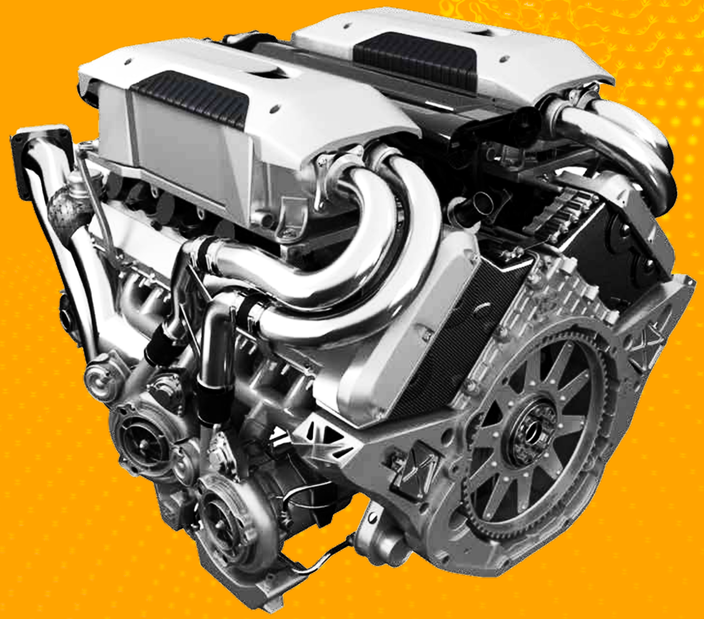
- Stable viscosity during use
- Easy cold start up
- Enhanced engine metal protection
- Maintains a high order of engine cleanliness
- Improved fuel efficiency
- Better oxidation stability at high temperature

Performance levels

Meets and Exceeds

- **API SL, SL/CF**
- **ACEA A3/B3**
- **VW 505 00**
- **MB 229.1**

DIESEL ENGINE OIL



IGNEUS

UHPX1 SERIES

Description

AMCO IGNEUS UHPX1 diesel engine oils are advanced full synthetic, high-performance diesel engine oil that delivers long drain capability and fuel economy potential extending engine life for modern diesel engines operating in severe conditions. Formulated to deliver exceptional compatibility with exhaust after treatment systems using diesel particulate (DPFs), diesel oxidation catalysts (DOCs) and/or selective catalytic reduction (SCR) units. The low-ash formulation protects simultaneously all exhaust after-treatments meeting cleaner air requirements.

Benefits

- Outstanding performance at extreme temperatures
- First-rate protection for drivers, with extended oil drain intervals
- Enhanced emission system protection in a range of severe conditions
- Excellent low-temperature pumping ability enabling reliable engine start and wear protection at low temperatures
- Step outwear protection reducing engine wear promoting long engine life
- Unsurpassed oxidation stability for long oil drain intervals and prevention of deposits
- Superb resistance to corrosion protecting critical engine surfaces in humid environments.

Performance levels

- **API CK-4 / CJ-4 / CI-4 PLUS / CI-4**
- **JASO DH-2**
- **Caterpillar ECF-3**
- **Cummins CES 20081, Cummins CES 20086**
- **ACEA E7, E9-16**
- **MB 228.31**

Applications

Off-highway applications operating in severe low-speed/heavy-load conditions High-performance gasoline engines and mixed fleets Heavy-duty diesel engines using low-sulfur diesel fuels and multiple biodiesel fuel formulations.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		5W30	5W40	
Specific Gravity @ 15 °C	g/cc	0.845	0.845	ASTM-4052
Viscosity @40°C	mm2/s	72	84	ASTM D-445
Viscosity @100°C	mm2/s	11.8	13.3	ASTM D-445
Viscosity Index	–	160	160	ASTM D-2270
Flash Point, COC	°C	220	220	ASTM D-92
Base Number	mg KOH/ gm	11	11	ASTM D-97
Pour Point	°C	-39	-39	ASTM D-2896
Ash Sufated max	%	1	1	ASTM D-874
CCS @-30°C	–	5900	6150	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

IGNEUS

UHPX2 SERIES

Description

AMCO IGNEUS UHPX2 is a synthetic EC (Emission Compatible) Diesel Engine Oil meeting the requirement of API CK-4 performance level that helps extend engine life while providing long drain capability for modern diesel engines operating in extreme conditions. Delivers updated high-temperature performance under the extreme operating environments found in the trucking, mining, construction and agricultural industries.

Benefits

- Outstanding oxidation stability, extending ODI capability. Reduced low-temperature sludge build-up and high-temperature deposits
- Excellent soot and viscosity control enabling greater engine efficiency, long engine life and prolonged oil life
- Exceptional oil consumption control
- Corrosion protection and extended drain intervals for both new and old engines
- Lowtemperature fluidity and pumpability for smooth starting in cold weather
- Resistance to corrosive and abrasive wear
- Component compatibility for long gasket and seal life
- Long emissions after treatment life (DPF, DOC and SCR)

Performance levels

- **API CK-4 / CJ-4 / CI-4 PLUS / CI-4**
- **JASO DH-2**
- **Caterpillar ECF-3**
- **Cummins CES 20081, Cummins CES 20086**
- **ACEA E7, E9-16**
- **MB 228.31**

Applications

AMCO

Modern, high-performance diesel engines with exhaust gas recirculation (EGR), after treatment systems with diesel particulate filters (DPFs) and diesel oxidation catalysts (DOCs). Recommended for diesel applications using classic and naturally aspirated conventional designs. On-highway heavy-duty trucking and off-highway applications.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		10W40	15W40	
Specific Gravity @ 15 °C	g/cc	0.861	0.875	ASTM-4052
Viscosity @40°C	mm2/s	96	105	ASTM D-445
Viscosity @100°C	mm2/s	14.1	14.1	ASTM D-445
Viscosity Index	–	150	135	ASTM D-2270
Flash Point, COC	°C	220	220	ASTM D-92
Base Number	mg KOH/ gm	9	9	ASTM D-97
Pour Point	°C	-33	-33	ASTM D-2896
Ash Sufated max	%	0.9	0.9	ASTM D-874
CCS @-20°C	-	-	6800	ASTM D-5293
CCS @-25°C	–	6700	-	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

IGNEUS

XHP SERIES

Description

AMCO IGNEUS XHP diesel engine oils are formulated with advanced base oil having high viscosity index and additive technology for increased compatibility with the latest exhaust emission control systems while delivering energy savings, delivers fuel economy performance with no compromise in durability. Designed to meet the most severe performance requirements of the latest high output North American, Japanese, Korean & European diesel engines. The excellent cold start behavior ensures an optimal lubrication safety in the cold running phase.

Benefits

- ↗ Extended drain periods granted by high-temperature stability which minimizes degradation, sludge formation and oil thickening, consequently, longer drain intervals.
- ↗ Excellent Emission System compatible with Exhaust Gas Recirculation (EGR) and After-treatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs).
- ↗ Effective detergent additive system minimizing piston crown land deposits which may lead to damage bore polish.
- ↗ Proven organometallic anti-wear additive reducing wear in severe service by forming an interface layer on all metal contact surfaces, hence reducing wear and providing maintenance.
- ↗ Outstanding deposit control under high-temperature conditions encountered in turbocharged engines.

Performance levels

- **API CJ-4/CI-4+/CI-4**
- **ACEA E9, E7**
- **Caterpillar: ECF-3, ECF-2**
- **MB 228.31**
- **MAN M3575**
- **MTU Type 3.1, 2.1**
- **Volvo VDS-4**
- **Renault Trucks RLD-3**
- **Cummins CES 20081**

Applications

AMCO

Recommended for Naturally aspirated and turbocharged high speed four-stroke diesel engine and all automotive high speed diesel engines. Perfect for commercial road transport in light, medium, heavy duty service and Off-highway vehicles.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		10W40	15W40	
Specific Gravity @ 15 °C	g/cc	.860	0.865	ASTM-4052
Viscosity @40°C	mm2/s	98.3	106	ASTM D-445
Viscosity @100°C	mm2/s	14.5	14.8	ASTM D-445
Viscosity Index	–	152	145	ASTM D-2270
Flash Point, COC	°C	220	220	ASTM D-92
Base Number	mg KOH/ gm	8	8	ASTM D-97
Pour Point	°C	-33	-27	ASTM D-2896
CCS @-25°C	-	6700	-	ASTM D-5293
CCS @-15°C	–	-	6700	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

IGNEUS

UHPD SERIES

Description

AMCO IGNEUS UHPD diesel engine oil is manufactured to provide premium performance in diesel automotive engines used in heavy industries. It is blended with the latest additive technology to maintain the durability of emission control systems, including diesel particulate filters and other advanced after-treatment systems. UHPD provides excellent all weather protection and controls the emission in high speed engines. Meets future, current and obsolete engine oil performance level, particularly European and American standards.

Benefits

- Great resistance against corrosion and high-temperature oxidation.
- Excellent TBN retention.
- Supreme viscosity stability in service guaranteeing effective engine lubrication under severe conditions.
- Outstanding detergent, dispersant, and anti-wear properties.
- Maintains engine cleanliness and enables efficient control of soot, sludge, and piston deposits.
- Piston cleanliness performance providing effective protection against cylinder liner polishing.

Performance levels

Meets or exceeds API CI-4+

- **API CI-4/CH-4/SL,**
- **ACEA A3/B4/E7-12,**
- **MB 228.3/229.3,**
- **VW 502.00/505.00**
- **Volvo VDS-3**
- **Renault Truck RLD-2**
- **Mack EO-N; Mack EO-M Plus**
- **MAN M 3275**
- **Cummins CES 20076; Cummins CES 20077**

Applications

AMCO

Recommended for both on-highway and off-highway vehicles fitted with new engines for low emissions featuring EGR
Recommended for heavy duty diesel applications using older and naturally aspirated conventional designs.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		10W40	15W40	
Specific Gravity @ 25 °C	g/cc	.875	0.878	ASTM-4052
Viscosity @40°C	mm2/s	107	112	ASTM D-445
Viscosity @100°C	mm2/s	14.5	14.9	ASTM D-445
Viscosity Index	–	145	138	ASTM D-2270
Flash Point, COC	°C	220	225	ASTM D-92
Base Number	mg KOH/ gm	11	11	ASTM D-97
Pour Point	°C	-33	-27	ASTM D-2896
CCS @-25°C	-	6600	-	ASTM D-5293
CCS @-15°C	–	-	6800	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

IGNEUS

SHPD SERIES

Applications

Suitable for direct, indirect fuel injection, naturally aspirated and turbo-charged diesel powered equipment. On-highway light and heavy-duty trucking, construction, mining, quarrying, and agriculture. Universal engine oil for old and new diesel engine fueled by both high and low sulphur diesel.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		15W40	20W50	
Specific Gravity @ 25 °C	g/cc	0.88	0.884	ASTM-4052
Viscosity @40°C	mm2/s	118	176	ASTM D-445
Viscosity @100°C	mm2/s	15.5	18.7	ASTM D-445
Viscosity Index	–	135	120	ASTM D-2270
Flash Point, COC	°C	220	225	ASTM D-92
Base Number	mg KOH/ gm	11	11	ASTM D-97
Pour Point	°C	-27	-24	ASTM D-2896
CCS @-20°C	-	-	8600	ASTM D-5293
CCS @-15°C	–	6855	-	ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCOIGNEUS SHPD series Super Heavy Duty high performance diesel engine oils provide proven protection for diesel engines operating in on and off-highway conditions. Blended with the highest performance base oils and fortified with an advanced additive system for superior control of oil thickening caused by soot buildup and high temperature oxidation. It helps achieve reduced oil consumption and wear protection. Suitable for direct and indirect injection and for turbo charged and super charged stationary and mobile diesel engines.

Recommended for use in a wide range of heavy-duty applications and operating environments found in the trucking, mining, construction, quarrying, and agricultural industries.

Benefits

- ↗ TBN Reserve ensures deposit control
- ↗ Stay-in-grade shear stability reduces oil consumption and wear protection
- ↗ Excellent detergency/dispersancy
- ↗ Improved oxidation stability to minimize deposit formation
- ↗ Higher TBN to extend protection from acids caused by combustion
- ↗ Better protection against valve train wear
- ↗ Improved low temperature performance

Performance levels

- **API CH-4/SJ**
- **MB 228.3**
- **ACEA E7, A3/B3/B4**
- **VOLVO VDS-2**
- **Renault RLD-2**
- **MTU Type 2**
- **Cummins CES 20076**

IGNEUS

MULTIFUNCTIONAL

HD SERIES

Description

AMCO IGNEUS HD Series of heavy duty multifunctional crankcase lubricants are developed primarily for high output, naturally aspirated or supercharged diesel engines, operating under moderate conditions. Formulated from high VI mineral base oils and chemical additives which provide dispersant, detergent, anti-oxidant, anti-wear, anti-rust properties, to provide superior lubrication for both diesel and gasoline engines operating under heavy-duty environments.

Benefits

- Fuel saving and reduces maintenance expenses for machines and engines.
- Keeps soot and combustion debris in suspension thus keeping the engine clean ensuring very long oil changing period
- Good viscosity control.
- Minimizes piston ring sticking tendencies.
- Reduces oil consumption even after extensive service.
- Keeps engine interiors clean and free of sludge, carbonaceous deposits and lacquer.
- Minimizes valve train wear, piston ring and bearing wear.

Performance levels

- **API CF-4/SJ**
- **MB 228.1**
- **ACEA A3/B3 E2**

Applications

Recommended for modern heavy duty engines, turbo-charged or naturally aspirated diesel engines, generators, trucks, construction cars, passenger cars or mixed vehicles comprising diesel and gasoline cars where the OEM recommends API CF-4 or earlier specification.

Product Characteristics

Properties	Units	Value					Test Method
SAE Grade		15W40	20W50	30	40	50	
Specific Gravity @ 25 °C	g/cc	0.88	0.884	0.887	0.89	0.9	ASTM-4052
Viscosity @40°C	mm2/s	118	176	105	161	222	ASTM D-445
Viscosity @100°C	mm2/s	15.5	18.7	11.5	15.3	19.2	ASTM D-445
Viscosity Index	–	135	120	95	98	98	ASTM D-2270
Flash Point, COC	°C	220	225	230	240	245	ASTM D-92
Base Number	mg KOH/ gm	11	11	11	11	11	ASTM D-97
Pour Point	°C	-27	-24	-18	-15	-12	ASTM D-2896
CCS @-20°C	-	-	8850	-	-		ASTM D-5293
CCS @-15°C	–	6780	-	-	-		ASTM D-5293

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

IGNEUS

MONOGRADE

X SERIES

Description

AMCO IGNEUS X is a high performance mono-grade crankcase heavy duty engine oil based on high quality mineral base stocks and advanced additives technology providing superior dispersancy / detergency, wear and oxidation resistance properties. It is capable of withstanding high oils stress and has been further enhanced for improved deposit and sludge control.

Benefits

- Reduces engine wear and keeps engine interior clean.
- Protects against rust and corrosion.
- Minimizes the formation of deposits on piston and piston-rings.
- Keep the soot and wear particles dispersed to avoid possible filter choking.

Performance levels

- **API CF, CF/SF**
- **ACEA E2/B2/B3/A3**

Applications

It can be used in light duty diesel engines where an oil of API service category CF is recommended. Its high reserve alkalinity makes it suitable for indirect injection (IDI) diesel engines running on high sulphur distillate fuels. Ideal for mixed fleet use with heavy duty diesel engines and fuels of a wide range.

Product Characteristics

Properties	Units	Value				Test Method
SAE Grade		30	40	50	60	
Specific Gravity @ 25 °C	g/cc	0.887	0.89	0.9	0.9	ASTM-4052
Viscosity @40°C	mm2/s	105	161	222	276	ASTM D-445
Viscosity @100°C	mm2/s	11.5	15.3	19.2	24.8	ASTM D-445
Viscosity Index	–	95	98	98	115	ASTM D-2270
Flash Point, COC	°C	230	240	245	240	ASTM D-92
Base Number	mg KOH/gm	8	8	8	8	ASTM D-97
Pour Point	°C	-18	-15	-12	-12	ASTM D-2896

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

HYDRAULIC OILS

URO

IG

Applications

Recommended for industrial hydraulic systems and for most general hydraulic systems that require a DIN HLP or ISO HM anti-wear hydraulic fluid.

Product Characteristics

Properties	Units	Value				Test Method
ISO Grade		100	150	220	320	
Specific Gravity @ 15 °C	g/cc	0.88	0.883	0.89	0.9	ASTM-4052
Viscosity @40°C	mm2/s	100	150	220	320	ASTM D-445
Viscosity Index	–	>90	>90	>90	>90	ASTM D-2270
Flash Point, COC	°C	230	235	240	245	ASTM D-92
Neutralization No	mg KOH/gm	0.2	0.2	0.2	0.2	ASTM D-97
Pour Point	°C	-18	-15	-12	-9	ASTM D-2896
Foam	ml, Max	0/0/0	0/0/0	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO URO IG oils are premium quality anti-wear type general hydraulic lubricants formulated with superior quality of hydro treated base stock. They provide long service life and are recommended for industrial hydraulic systems of wide variety of equipment's.

Benefits

- Excellent hydrolytic stability providing superior wet and dry filterability and wet and dry pump performance.
- Effectively control sludge and deposit formation
- Excellent corrosion protection to the ferrous and yellow metal components within the hydraulic system.

Performance levels

- **ISO 6743, HM**
- **DIN 51524 Part 2**
- **Denison HF-0, HF-1 and HF-2**

URO

ANTIWEAR

AW SERIES

Description

AMCO URO AW series of premium quality anti-wear hydraulic oils blended from high quality, chemically-stable solvent refined base oils and incorporated with a balanced additive system enabling excellent hydrolytic and oxidative stability ensuring minimal tendency to produce sludge and deposits. Its good anti-wear performance prevents wear of internal components and reduces downtime utilization of Hydraulic Oils AW will provide excellent wear protection in hydraulic and circulation systems along with good air release properties.

Benefits

- Excellent anti-wear performance.
- Rust and corrosion protection to ferrous and yellow metal components.
- Superior filterability.
- Low friction with excellent water separation, air release, and antifoam properties.
- Hydraulic stability.
- Seal and paint compatibility.

Performance levels

- **ISO 11158 HM,**
- **DIN 51524-2 HLP,**
- **Cincinnati-Milacron P68, P69, P70,**
- **Denison HF0, HF1, HF2, GM LS2,**
- **ISO 6743-4 HM, Eaton I-286S,**
- **DIN 51524-3 HVLP**

Applications

AMCO

- Used in circulation, splash, and ring oil lubricants systems and compressors

Product Characteristics

Properties	Units	Value						Test Method
ISO Grade		22	32	37	46	68	100	
Specific Gravity @ 15 °C	g/cc	0.86	0.87	0.87	0.875	0.88	0.883	ASTM-4052
Viscosity @40°C	mm2/s	22	32	37	46	68	100	ASTM D-445
Viscosity @100°C	mm2/s	4.5	5.1	5.8	6.65	8.3	11.2	ASTM D-445
Viscosity Index	–	>95	>95	>95	>95	>95	>95	ASTM D-2270
Flash Point, COC	°C	222	222	225	228	230	233	ASTM D-92
Pour Point	°C	-24	-24	-24	-18	-18	-15	ASTM D-2896
Demulsification	mins	10	10	10	10	10	10	ASTM D-1401
Foaming	ml, Max	0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

URO

HVI

Applications

- Recommended for use in hydraulic equipment operating in very cold conditions, such as cold stores and mobile equipment.
- Best for fine instruments and other mechanisms where power input is limited
- Reduces deposit formation in equipment where close clearance servo-valves are used
- Systems where cold start-up and high operating temperatures are typical
- Systems requiring a high degree of load-carrying capability and anti-wear protection

Product Characteristics

Properties	Units	Value			Test Method
ISO Grade		32	46	68	
Specific Gravity @ 15 °C	g/cc	0.84	0.843	0.85	ASTM-4052
Viscosity @40°C	mm2/s	32	46	68	ASTM D-445
Viscosity @100°C	mm2/s	7	9	12.3	ASTM D-445
Viscosity Index	–	>180	>180	>180	ASTM D-2270
Flash Point, COC	°C	220	225	230	ASTM D-92
Pour Point	°C	-39	-39	-36	ASTM D-2896
Demulsification	mins	10	10	10	ASTM D-1401
Foam	ml, Max	0/0/0	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO URO HVI is a line of premium performance anti-wear hydraulic oils with unusually high viscosity indexes. They are formulated to maintain close viscosity control over wide temperature range applications. Because of their resistance to viscosity change, HVI oils are recommended for hydraulic systems that are subject to wide temperature variations. Many of these systems are sensitive to changes in viscosity of the hydraulic oil since they depend on uniform viscosity for hydraulic accuracy. They exhibit optimum flow characteristics at sub-zero temperatures; moreover,the oils are resistant to shearing and viscosity loss so that system efficiency is maintained, and internal pump leakage is minimized at high operating temperatures and pressures.

Benefits

- Improves machine accuracy and reduces torque
- Very low pour points maintains excellent fluidity conditions at low temperatures
- High Performance and smooth operations and fast air release,
- Very good foam control and good water separability
- Exceptional rust and corrosion protection reduces the effects of moisture on system components
- Effective oxidation stability reduces deposits and improves valve performance.

Performance levels

- **ISO 11158 (HV Fluids)**
- **DIN 51524-3 HVLP**
- **ASTM D6158 (HV fluids)**
- **Cincinnati-Milacron P68**
- **Denison (HF-0, HF-1, HF-2)**
- **Eaton E-FDGN-TB002-E**
- **DIN 51524-3 HVLP**

GEAR OILS

VOLO

IG SERIES

Applications

- Enclosed industrial gear drives.
- Open gear drives (heavy grades).
- Spur, bevel, helical, worm and industrial hypoid gear cases.
- Industrial type reduction gearboxes on mining equipment, cement mills, ball and rolling mills,crushers, conveyors, kilns, winches, machine tools and marine equipment
- Chain drives sprockets, slide guides and flexible couplings.
- Plain and rolling element bearings.
- For bath, splash, circulation or spray lubrication, as applicable to the grade.

Product Characteristics

Properties	Units	Value						Test Method
ISO Grade		100	150	220	320	460	680	
Specific Gravity @ 15 °C	g/cc	0.88	0.883	0.89	0.9	0.903	0.911	ASTM-4052
Viscosity @40°C	mm2/s	100	150	220	320	460	680	ASTM D-445
Viscosity @100°C	mm2/s	11.2	14.8	19.9	24.8	30.6	42.3	ASTM D-445
Viscosity Index	–	>90	>90	>90	>90	>90	>90	ASTM D-2270
Flash Point, COC	°C	240	240	245	248	255	258	ASTM D-92
Pour Point	°C	-18	-15	-12	-9	-6	-6	ASTM D-2896
Foam	ml, Max	0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VOLO IG series of Gear Oils are formulated from high quality, high VI base oils selected for their oxidation stability and water separating characteristics advanced additive system provides rust and oxidation inhibition, corrosion and oxidation inhibition and a metal passivator. The Extreme Pressure characteristics imparted by its complex sulfur-phosphorus additive system enable high performance even in harsh conditions. Designed primarily for industrial gear lubrication services loads and shock loads are high.

Benefits

- Excellent load-carrying capacity.
- Outstanding anti-wear properties.
- Excellent oxidation stability.
- Rust and corrosion protection.
- Excellent lubricity and good anti-foam properties.
- Minimize friction resulting in reduced bulk-oil temperature.
- Effective demulsibility for rapid water separation.
- Resistance to micro-pitting.

Performance levels

- **ANSI / AGMA 9005-D94(EP), U.S. Steel 224 , AGMA 250.04(EP),**
- **David Brown Table E approved, AGMA 251.02(EP).**

VOLO

MO SERIES

Applications

Recommended for the type of service characteristics of gears, particularly hypoid, in passenger cars and other automotive equipment operated under high-speed/shock-load, high-speed/low-torque, and low-speed/high-torque conditions.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		90	140	
Specific Gravity @ 15 °C	g/cc	0.898	0.905	ASTM-4052
Viscosity @40°C	mm2/s	209.3	416	ASTM D-445
Viscosity @100°C	mm2/s	18.3	27.9	ASTM D-445
Viscosity Index	–	>90	>90	ASTM D-2270
Flash Point, COC	°C	240	250	ASTM D-92
Pour Point	°C	-12	-9	ASTM D-2896
Foam	ml, Max	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VOLO MO series of Gear Oils are automotive extreme pressure gear oils blended from specially selected high viscosity index base stocks and contain additives which impart extreme pressure, anti-rust, anti-corrosion and anti-oxidation characteristics. These are multi-purpose type gear lubricants specifically formulated to meet the rigorous service demand of commercial fleet mechanical transmissions, axles and gear boxes.

Benefits

- Extended gear and bearing life due to minimal deposits.
- Reduced wear at start-up and ease of start-up.
- Compatible with typical seals and gaskets, thus, a longer seal life.
- Good thermal stability and resistance to high-temperature oxidation.
- Excellent protection against wearing and scoring caused by high speed and heavy loads.
- Suitable for a wide range of applications and service conditions.
- Superior protection against rust, pit and corrosion.
- Compatible with seals and gaskets.

Performance levels

- **API Service GL-5**
- **US Military MIL-L-2105D**
- **UK Defence CS 3000B**
- **MB 235.1**

VOLO

MG

Applications

- Heavy duty axles and final drives requiring API GL-5 level performance
- Passenger cars, on highway light and heavy duty trucks and commercial vehicles
- Off highway industries including: construction, mining, quarrying, and agriculture
- Other heavy duty industrial and automotive applications involving hypoid gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque prevail.

Product Characteristics

Properties	Units	Value				Test Method
SAE Grade		80W	80W90	85W90	85W140	
Specific Gravity @ 15 °C	g/cc	0.88	0.89	0.89	0.905	ASTM-4052
Viscosity @40°C	mm2/s	82	150	180	350	ASTM D-445
Viscosity @100°C	mm2/s	10.2	14.8	17.5	25.5	ASTM D-445
Viscosity Index	–	>95	>95	>95	>90	ASTM D-2270
Flash Point, COC	°C	230	240	240	250	ASTM D-92
Pour Point	°C	-27	-27	-21	-12	ASTM D-2896
Foam	ml, Max	0/0	0/0/0	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VOLO MG are high performance, heavy duty gear lubricants formulated from high performance base oils and an advanced additive system. These lubricants are engineered for automotive applications including heavy duty axles and final drives where extreme pressures and shock loading are expected. The gear oil is specially formulated to meet the requirement of the new class of compactly built gearboxes.

Benefits

- Exceptional thermal stability and resistance to high-temperature oxidation Extended gear and bearing life thanks to minimal deposits
- Longer seal life and reduced maintenance costs resulting in longer equipment life
- Outstanding protection against low speed/high torque wear and high-speed scoring
- Increased load-carrying capability
- Excellent rust and corrosion protection
- Compatible with typical automotive seals and gaskets
- Minimum leakage and reduced contamination.

Performance levels

- **API GL-5**
- **MIL-L-2105C**
- **MIL-L-2105**

VOLO

XP

Applications

Suitable for all commercial vehicles equipped with manual and automated gearboxes and any application requiring an API GL-5 level of performance.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		75W90	75W140	
Specific Gravity @ 15 °C	g/cc	0.86	0.863	ASTM-4052
Viscosity @40°C	mm2/s	110	180	ASTM D-445
Viscosity @100°C	mm2/s	15.2	24.8	ASTM D-445
Viscosity Index	–	>145	>145	ASTM D-2270
Flash Point, COC	°C	223	235	ASTM D-92
Pour Point	°C	-42	-36	ASTM D-2896
Foam	ml, Max	0/0/0	0/0/0	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO VOLO XP fully synthetic premium performance gear oils formulated with a high quality synthetic base stock and advanced additive system provide excellent low temperature fluidity for lubrication during very low temperature axle and transmission startup, maintains a thick protective oil film during extremely hot operating conditions. Fuel-economy gear oil for commercial vehicle manual transmission and axle drives.

Benefits

- Exceptional thermal stability and resistance to high-temperature oxidation.
- Extended gear and bearing life due to minimal deposits.
- Longer seal life helps to reduce operating expenses.
- Increased load-carrying capability.
- Contribution to reduced maintenance and longer equipment life.
- Enhanced frictional properties and maintains film strength for reliable lubrication.
- Outstanding low-temperature fluidity versus mineral oils.
- Contribution to reduced wear and ease of start-up.

ATF

DCT

Applications

Recommended for use in dual-clutch transmissions.
Suitable for service fill in all major European, US, German, and Japanese vehicles

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity @ 15 ˚C	g/cc	**0.853**	ASTM-4052
Viscosity @40°C	mm2/s	**36**	ASTM D-445
Viscosity @100°C	mm2/s	**7.1**	ASTM D-445
Viscosity Index	–	**170**	ASTM D-2270
Flash Point, COC	°C	**205**	ASTM D-92
Brookfield Viscosity @ -40˚C	mPa.s	**14000**	ASTM D-2983
Pour Point	°C	**-48**	ASTM D-2896

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO ATF DCT is a premium full-synthetic lubricant formulated with the latest shear stable viscosity modifier technology allowing a premium performance to meet the needs of the most inclusive range of vehicles equipped with wet dual-clutch transmissions (DCT).

Benefits

- Exceptional oxidation stability and resistance to chemical deterioration —Long-lasting fluid quality and prolonged transmission life.
- Excellent lubricating characteristics for clutch friction durability, smooth shifting, and excellent wear protection.
- Outstanding seal performance to protect against fluid leakage and prevent component failures from oil starvation.
- Exceptional shear stability providing exemplary performance for shear stability which is critical for maintaining film thickness and enabling robust protection for gears and bearings for the duration of the recommended oil intervals.
- Outstanding friction durability, thus,demonstrating an outstanding improvement in friction durability. In consequence, continuously provides the required friction response over time allowing drain intervals to be extended.
- Excellent seal compatibility meeting the most severe requirements of the seals testing.
- Superior anti-shudder durability.
- Supreme protection against wear and tear under high stress working conditions.
- stress working conditions.

ATF

CVT

Description

AMCO ATF CVT is a full synthetic fluid designed for use in Continuously Variable Transmissions (CVT) of the majority of passenger cars fitted with push-belt technologies. . It provides higher torque capacity and enhanced wear protection extending the fluid performance and giving drivers a smoother drive. Its superior technology enables longer transmission life as well.

Benefits

- Higher torque capacity
- Enhanced wear protection in the push belt–pulley interface
- Superior operational efficiency with reduced risk of belt-slippage
- Improved oxidative stability with excellent viscosity control
- Outstanding metal-to-metal friction performance
- Fuel economy benefits and boosted durability of both, the fluid and the gearbox
- Improved anti-shudder durability
- Superior wear protection on both push-belt and pulleys elements and outstanding scuffing resistance on gears.
- Excellent low-temperature properties providing easier start-ups and improved lubrication at low ambient temperatures
- Premium thermal and oxidation stability for long and consistent temperature performance.
- Effective foam control properties, thus consistent shifting performance and reduced fluid losses in severe services.
- Excellent parts material compatibility

Applications

Recommended for use in most belt and chain-driven continuously variable transmission. Not recommended for use in step AT or DCT transmissions.

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity @ 15 ˚C	g/cc	**.851**	ASTM-4052
Viscosity @40°C	mm2/s	**32**	ASTM D-445
Viscosity @100°C	mm2/s	**7.1**	ASTM D-445
Viscosity Index	–	**170**	ASTM D-2270
Flash Point, COC	°C	**208**	ASTM D-92
Brookfield Viscosity @ -40˚C	mPa.s	**12000**	ASTM D-2983
Pour Point	°C	**-48**	ASTM D-2896

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

ATF

II D

Applications

AMCO

Amco ATF II D is formulated from high-quality conventional base oils combined with a special additive system, providing consistent, reliable, smooth and trouble-free operation of automotive transmission systems.

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity @ 15 ˚C	g/cc	**.858**	ASTM D4052
Viscosity @40°C	mm2/s	**37.3**	ASTM D445
Viscosity @100°C	mm2/s	**7**	ASTM D445
Viscosity Index	–	**152**	ASTM D2270
Flash Point, COC	°C	**208**	ASTM D92
Foam ml,max	Ml	**0/0/0**	ASTM D892
Pour Point	°C	**-39**	ASTM D2896

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO ATF II D is formulated from high-quality conventional base oils combined with a special additive system, providing consistent, reliable, smooth and trouble-free operation of automotive transmission systems.

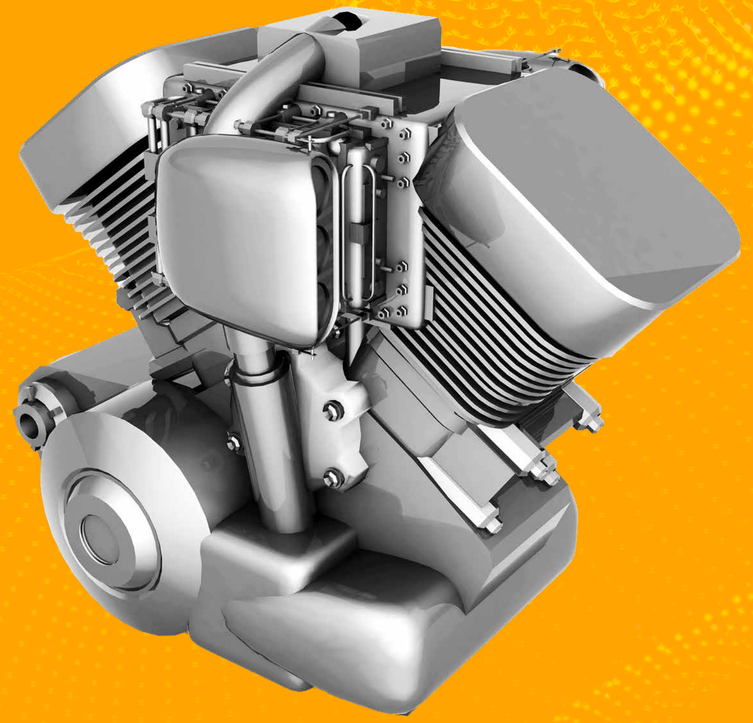
Benefits

- Provides consistent, reliable, smooth and trouble-free operation of many automotive transmission systems
- Resists Oil degradation ensuring consistent performance
- Excellent low temperature fluidity
- Effective foam control properties
- Good Oxidation and thermal stability

Performance levels

- **GM Dexron II**
- **Allison C-4**
- **Caterpillar TO-2**
- **Ford ESR-M**
- **GM Type A Suffix A**

MOTORCYCLE OILS



FEROX

2T

Applications

Recommended for use in two stroke air-cooled gasoline engines. It is also recommended for smaller engines fitted in scooters, motorcycles, lawn movers, chainsaws and other small equipment. It should be added with gasoline in the ratio as recommended by the equipment manufacturer.

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity 15 ℃	g/cc	0..875	ASTM-4052
Viscosity 40°C	mm2/s	63.2	ASTM D-445
Viscosity 100°C	mm2/s	8.8	ASTM D-445
Viscosity Index	–	115	ASTM D-2270
Flash Point, COC	°C	135	ASTM D-92
Pour Point	°C	-33	ASTM D-2896
Pour Point	°C	-12	ASTM D-2896

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

Amco Ferox 2T is low smoke semi-synthetic two stroke engine oil developed to meet the critical requirements of high performance two stroke engines manufactured by leading auto makers. It is blended from selected base stocks, special low ash additives to minimize spark plug fouling and preignition, prevent rusting, minimize deposit formation and provide protection against seizure, scuffing and wear. It is specifically formulated to give additional advantage of lower oil consumption. It contains a diluent for easy mixing with gasoline.

Benefits

- Low exhaust smoke
- Maintains engine cleanliness
- Minimizes spark plug fouling
- Reduces port deposits and ring sticking
- Prevents seizure and scuffing
- Is easily pumpable by oil injection system

Performance levels

- **API TC**
- **JASO FC**

FEROX

4T

Applications

Recommended for new generation 4-stroke gasoline engines in high performance motorcycles of all leading global manufacturers.

Product Characteristics

Properties	Units	Value		Test Method
SAE Grade		10W40	20W50	
Specific Gravity @ 15 °C	g/cc	0.868	.88	ASTM-4052
Viscosity @40°C	mm2/s	98.4	166.7	ASTM D-445
Viscosity @100°C	mm2/s	14.5	18.7	ASTM D-445
Viscosity Index	–	>150	>120	ASTM D-2270
Flash Point, COC	°C	232	238	ASTM D-92
Pour Point	°C	--33	-27	ASTM D-2896
TBN	Mg KOH/g	8.2	8.2	ASTM D-892

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO Ferox 4T Oils are blended from High Viscosity Index Base stocks and carefully selected additives to meet stated standards. Excellent shear resistance protecting engine and gearbox. Smooth shifting. exceeds the international specification JASO MA for 4-stroke motorcycle oils and the requirements of leading global 4-stroke motorcycle manufacturers and also meets JASO MA2 specifications for optimal wet clutch performance.

Benefits

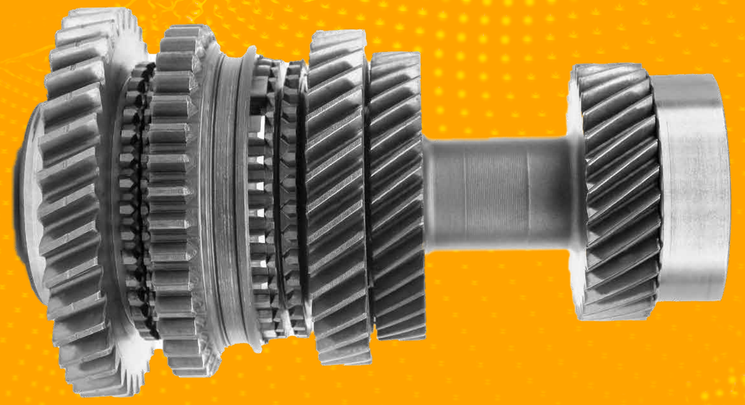
- Maximum power output.
- Superior performance in terms of oxidation stability.
- Excellent wear protection at high temperatures and severe operating conditions.
- Outstanding overall engine cleanliness.
- Enhanced engine life.
- Higher fuel efficiency

Performance levels

Meets and Exceeds the requirements of

- **JASO MA / MA2**

AGRICULTURE OILS



EMILIUS

SHPD

Description

AMCO Emilius is a commercial multipurpose heavy-duty diesel engine oil designed for the most severe performance requirements of modern, highly rated turbo charged diesel engines for the road transport fleet application and also off highway operations. It assures outstanding protection against high temperature engine deposits, oil degradation, oil thickening and corrosion resistance. The oil is having excellent shear stability to maintain viscosity under severe, high temperature operations.

Benefits

- ↗ - Reduced engine scuffing and bore polishing.
- ↗ - High engine cleanliness.
- ↗ - Maximum protection from wear and deposits.
- ↗ - Suitable for mixed fleet operation.
- ↗ - Improved control of oil consumption.
- ↗ - Easier cold starting.
- ↗ - Excellent all-weather performance due to improved cold weather properties.
- ↗ - Catalytic Converter compatible.

Performance levels

Meets and Exceeds the requirements of

- **API CG4**
- **ACEA E3**
- **MB 228.3**
- **MACK EO-M**
- **MAN 271**
- **VOLVO VDS-2**
- **Cummins CES 20071 & 20072**

Applications

AMCO

Recommended for new generation commercial diesel vehicles of both American and European design such as Caterpillar and Cummins operating on low Sulphur fuels.

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity 15 ˚C	g/cc	.875	ASTM-4052
Viscosity @40°C	mm2/s	117.7	ASTM D-445
Viscosity @100°C	mm2/s	15.2	ASTM D-445
Viscosity Index	–	135	ASTM D-2270
Flash Point, COC	°C	226	ASTM D-92
TBN	Mg KOH/g	9.6	ASTM D-2896
Pour Point	°C	- 30	ASTM D-97

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

EMILIUS

STOU

Description

AMCO Emilius STOU is a versatile high-performance multifunctional Oils Oil designed for use in a wide variety of modern agricultural equipment. It is carefully engineered with selected base stocks and performance additives to meet wide range of farming applications. Simplified lubricant inventory to meet the diverse performance requirements of modern new generation farm tractors applications of wet brakes, power take off clutch, hydraulic system, transmission and final drives.

Benefits

- Protects against scuffing, pitting and wear of all transmission gears and bearings
- TBN reserves
- Excellent ageing resistance
- All season suitability (engine, gearbox, hydraulics)
- Reduced Sort variety
- High performance help maintain the life of all mechanical components preventing metal fatigue and early wear of all working parts
- Excellent protection for all working parts, excellent anti-corrosion properties.
- Jerk free hydraulic operations. Use of quality base oils to ensure consistent low temperature viscosity characteristics ensures smooth operation of hydraulic pumps and rams.

Performance levels

Meets and Exceeds the requirements of

- **API – GL-4**
- **Massey Ferguson M1139, M1144**
- **Caterpillar: CAT TO-2**
- **Can be used in applications requiring CF-4**
- **John Deere J27, J20CI**
- **Allison C-4**

Applications

AMCO

Recommended for new generation 4-stroke gasoline engines in high performance motorcycles of all leading global manufacturers.

Product Characteristics

Properties	Units	Value	Test Method
Specific Gravity @ 15 ˚C	g/cc	.870	ASTM-4052
Viscosity @40°C	mm2/s	94.2	ASTM D-445
Viscosity @100°C	mm2/s	13.3	ASTM D-445
Viscosity Index	–	141	ASTM D-2270
Flash Point, COC	°C	228	ASTM D-92
TBN	Mg KOH/g	11.8	ASTM D-2896
Pour Point	°C	- 33	ASTM D-97

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

GREASES

GREASE

EP2

Applications

Suitable for the lubrication of both plain and rolling element bearings operating under high temperature, high load conditions. Operating temperatures up to 120°C can be withstood, or higher if the grease is frequently replenished. Suitable for most bearing operations in industrial and automotive

Product Characteristics

Properties	Units	Value						Test Method
NLGI Grade		0	0	0	1	2	3	**DIN 51 818**
DIN Classification		KP000K-20	KP00K-20	KP0K-20	KP1K-20	KP2K-20	KP3K-20	**DIN 51 825**
Soap Type		Lithium						
Worked Penetration	0.1 mm	445-475	400-430	355-385	310-340	265-295	220-250	**ASTM D217**
Dropping Point	°C	150 min	165 min	170 min	180 min	185 min	190 min	**ASTM D566**
Base Oil Viscosity 40°C		190 - 220	190 - 220	190 - 220	150	150	150	**ASTM D445**
Timken OK Load	lbs.	44 - 50	44 - 50	44 - 50	44 - 50	45 - 55	45 - 55	**ASTM D2509**
4 ball EP-test, weld load	kg (F)	-	-	-	260-280	260-280	260-280	**ASTM D 2596**

Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

Description

AMCO EP greases are multi-purpose extreme pressure Lithium based greases with EP additives. They also contain special inhibitors to increase ageing stability and anti-corrosion properties. AMCO EP grades of greases are specially formulated to meet the demands of an EP grease for boundary lubrication conditions so as to prevent excessive wear, localized welding or seizure, have a very high resistance to mechanical loads and give excellent protection against water washout and rusting.

Benefits

- Possess excellent dispensing properties at low and high temperature, ensuring trouble free lubrication with centralized lubrication system
- Protect machine elements from excessive wear
- Prevent welding and seizure of the moving parts often caused by shock loading
- Protect bearing elements against rust and corrosion
- Resist water wash out thus assuring adequate lubrication over extended service intervals.

Performance levels

AMCO EP greases are available in various grades meeting the requirements of

- **NLGI – Grades 000, 00, 0, 1, 2, 3**
- **DIN Classification – KP000K-20 till KP3K-20**
- **ASTMD 4950 GC-LB**