






CAS

LUBRICANTS



-  **Full Synthetic Compressor Oil, CAS C1**
-  **Semi Synthetic Compressor Oil, CAS C2**
-  **Mineral Compressor Oil, CAS C3**
-  **High Performance Engine 15W40, CAS HP-15W40**
-  **Medium Engine 15W40, CAS HM-15W40**

Full Synthetic Compressor Oil

Synthetic Compressor Oil

CAS C1 are high-performance synthetic compressor oils designed to meet the stringent requirements of DIN 51506 VDL. Careful selection of synthetic base stocks provides outstanding oxidation resistance allowing for extended drain intervals of up to 4000 hours. The inherent oxidation stability of the base stocks in combination with a synergistic thermally stable additive package results in a product with greatly minimized formation of sludge, varnish, lacquer and carbon deposits. Outstanding anti-wear properties as shown in the VKA four ball and FZG tests ensure reduced component wear and increased component life, resulting in reduced maintenance and extended service life. Superior water separation and advanced foam control provide trouble-free operation even under high speed, temperature, and pressure conditions, where air release, corrosion protection and filterability are paramount. A low pour point and high flash point provide a wide temperature operating window, ensuring easier cold starts during winter, faster post start lubricant circulation to critical parts, and better film thickness between moving parts at high operating temperatures.

Application

CASC1 is recommended for a wide range of high output oil-flooded, rotary vane & screw compressors operating under severe service conditions where normal compressor oils cannot deliver the service life, or in normal operating conditions where an extended drain interval is required.

Performance Levels

CAS C1 Series meets or exceeds the following international specifications:
DIN 51506 VDL

Typical Properties

ISO Grade	32	46	68	100
Appearance	Light bright liquid			
Viscosity @ 40 °C (cSt)	32	44	68	100
Viscosity @ 100 °C (cSt)	5.73	7	9.37	11.9
Viscosity Index	118	117	115	108
Density @ 20 °C (kg/L)	0.8555	0.8579	0.8613	0.8655
Pour Point (°C)	-12	-12	-11	-10
Flash Point COC (°C)	230	230	230	220
Neutralisation value (mg/KOH/g)	0.2	0.2	0.1	0.1
Demulsibility (oil-water, emulsion ml)	42:38:2	42:38:2	42:38:2	42:38:2

Semi Synthetic Compressor Oil

Clean Tech Semi-Synthetic Compressor

CAS C2 was developed with the assistance of a market-leading industrial compressed air services company. With the valuable experience gained from field tests with CAS C2, we were able to design a compressor oil that runs cleaner for longer under severe operating conditions. Designed to operate in smelters and other extreme environments, the inherent oxidation stability of the base stocks in combination with a synergistic thermally stable additive package results in a product with minimized formation of sludge, varnish, lacquer and carbon deposits. Superior water separation and advanced foam control provide trouble-free operation even under high speed, temperature, and pressure conditions, where air release, corrosion protection and filterability are paramount. A low pour point and high flash point provide a wide temperature operating window, ensuring easier

Application

CAS C2 is recommended for a wide range of high output oil-flooded, rotary vane & screw compressors operating under severe service conditions where normal compressor oils cannot deliver the service life, or in normal operating conditions where an extended drain interval is required.

Performance Levels

CAS C2 meets or exceeds the following international specifications:
DIN 51506 VDL

Benefits

- Excellent anti-wear properties.
- Superior lubrication, increasing engine life.
- Improved fuel economy.
- High viscosity index.
- Wide operating temperature range.

Typical Properties

ISO Grade	46	68
Appearance	Light bright liquid	
Viscosity @ 40 °C (cSt)	46	46
Viscosity @ 100 °C (cSt)	7.8	9.8
Viscosity Index	140	130
Density Kg /L @ 20 °C	0.86	0.87
Pour Point °C	-15	-11
Flash Point COC °C	225	233
Neutralisation value (mg/KOH/g)	0.32	0.32
Demulsibility (oil-water, emulsion ml)	44:36:2	44:36:2

Mineral Compressor Oil

Compressor Oils

High-pressure compressors require safety oils to meet very severe requirements. Compressor oils of the **CAS C3** range meet these requirements and were developed in accordance with the latest international specifications. Based on low carbon paraffinic oils they are fortified with a compressor fluid additive package, oxidation and rust inhibitors and a demulsifying agent. The additive package has a very low ash content and prevents lubricant deterioration.

Application

CAS C3-68 is generally used in oil-flooded vane and screw-type compressors, while **CAS C3-100** and **CAS C3-150** are used in crankcases and cylinders of reciprocating compressors.

Performance Levels

CAS C3-150 compressor oils have been developed in accordance with the latest European standards. They meet or exceed the following specifications:

DIN 51506 VD-L

Typical Properties

ISO Grade	32	46	68	100	150	220	320
Viscosity @ 40 °C (cSt) 32	46	68	100	150	220	320	
Viscosity @ 100 °C (cSt)	5.5	7.0	8.8	14.8	11.2	18.3	23.6
Viscosity Index	106	100	101	95	97	95	90

High Performance Engine Oil

High-Performance Diesel & Petrol Engine Oil

CAS HP-15W40 High Performance multipurpose engine oil designed for a wide range of high output turbocharged diesel and petrol engines. Blended from highly refined mineral oils and treated with a well-balanced additive package. It provides outstanding deposit, oxidation, wear and rust control. Due to its multipurpose nature, only one engine oil needs to be carried in stock.

Application

The enhanced Dispersant and Detergent package is designed to meet the OEM requirements for crankcase engines enduring extended drain intervals.

Performance Levels

CAS HP-15W40 meets or exceeds the following international and OEM specification

API SJ/CH-4	MB 228.3	Mack EO-M Plus/EON	CAT ECF-1-a
MTU Type 2	Volvo VDS-3	MAN 3275	ACEA E7-12
Renault Truck RLD-2	Renault Truck RLD-2	Cummins CES 20076/77	

Detroit Diesel DDC 93K215

Benefits

- Extends drain intervals while maintaining power & efficiency.
- Cost savings from prolonged engine life and performance.
- Excellent protection & control of harmful deposits.
- Improved Turbocharger deposit protection.
- Outstanding anti-wear performance far exceeding API CI-4 levels.
- Excellent low-temperature fluidity for cold start-up.
- Mixed fleet applications and proven OEM performance.

Typical Properties

Viscosity (cSt) @ 40 °C	112
Viscosity (cSt) @ 100 °C	15.5
Viscosity Index	145
Total Base Number (mg KOH/g)	9.3
Flash Point (COC, °C)	215
Pour Point (°C)	-23
Density (kg/L)	0.868

Medium Engine 15W40 15W-40

Diesel and Petrol Engine Oil

CAS HM-15W40 is a heavy-duty diesel and petrol crankcase lubricant designed to meet the stringent requirements of the API SJ/CI service category for a wide range of engines. By blending highly refined base oils and carefully selected performance-enhancing additives service intervals may be extended. CAS HM-15W40 has excellent deposit-control, anti-rust, bearing corrosion and extreme-pressure wear control properties.

Application

CAS HM-15W40 The dispersant and detergent additive package used to formulate this product is designed to meet the OEM requirements for crankcase engines using exhaust gas recirculation. With the synergistic effects between the premium base oils and the additives, **CAS HM-15W40** provides extended drain intervals and minimising operating costs as well as hydraulic systems of vehicles and earth-moving equipment.

Performance Levels

CAS HM-15W40 meets or exceeds the following international and OEM specification.

API SJ/CI-4

Benefits

- Long engine life and low maintenance costs.
- Extended drain intervals
- Excellent protection against wear and corrosion.
- Outstanding control of high-temperature deposits.
- Good control of low-temperature sludge and deposits.
- Multi-purpose oil provides reduced stock holding.

Typical Properties

Appearance	Straw coloured viscous liquid
Viscosity @ 40 °C (cSt)	110
Viscosity @ 100 °C (cSt)	14.5
Viscosity Index	135
Total Base Number (mg KOH/g)	10.5
Flash Point (COC, °C)	213
Pour Point (°C)	-21
Density (kg/L)	0.872

Multi-fleet Engine Oil 15W-40

Premium Multi-fleet Engine Oil

CAS NM-15W-40 is a premium multi-fleet engine oil, for use in both petrol and turbocharged diesel engines. Blended from highly refined mineral oils, it is treated with a well-balanced additive package providing outstanding deposit, oil oxidation, bearing corrosion and extreme pressure wear control, suitable for on and off-highway applications.

Application



Engine Oil



Off-highway



On-highway



Multi-fleet

CAS NM-15W-40 is an ideal oil for a mixed fleet of modern engines ranging from passenger vehicles to turbo-charged heavy-duty diesel engines, operating under a variety of service conditions.

Performance Levels

CAS NM-15W-40 meets or exceeds the following international and OEM specification.

API SG/CF-4 MB 228.1 ACEA E2-96 MAN 271
Deutz DQC I-02

Benefits

- Excellent anti-wear properties.
- Superior lubrication, increasing engine life.
- Improved fuel economy.
- High viscosity index.
- Wide operating temperature range.

Typical Properties

Viscosity @ 40 °C (cSt)	107.4
Viscosity @ 100 °C (cSt)	14.5
Viscosity Index	138
Total Base Number (mg KOH/g)	7.2
Flash Point (° C)	240
Density (kg/L)	0.870