



Specialists in Industrial & Automotive Oil

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Document Number:

TDS030

SUBJECT: OIL SPECIFICATIONS

ENVIRONMENTAL & QUALITY MANUAL
(in accordance with SABS ISO 9001 & 14001)

VISCOL SERIES 4 ENGINE OILS & LOCOMOTIVE VERSIONS SAE 10W, 20, 30, 40

Description:

Viscol SAE monograde engine oils are premium quality single-viscosity engine oils formulated to meet the lubrication requirements of petrol and diesel engines, including turbo-charged units, under the wide variety of conditions encountered in present day transport, farming and contractor fleet operations. They ensure easy starting and better fuel economy because of lower internal friction and they provide efficient control of sludge and deposits, increased wear protection and enhanced oxidation stability. Made from paraffinic base stock blended with the best additives available to provide superior lubrication and engine protection under all service conditions. The locomotive versions contain additional TBN boosters and are specifically formulated for underground locomotives to include usage in Hydrostatic Transmissions.

Performance Benefits:

Viscol SAE Engine Oils keep operating costs low and ensure maximum engine life for the following reasons:

- Correct viscosity within safe limits and efficient lubrication at all operating temperatures are assured. Owing to the very high viscosity index the viscosity of the oils are not excessively affected with change in temperature.
- They keep the engine clean internally and ensure full oil flow circulation to give maximum protection.
- They keep the piston rings and valves moving freely and so ensure maximum mechanical efficiency of the engine.
- They reduce engine wear to a minimum because they contain effective anti-rust, anti-corrosion and anti-wear additives.

Performance Level:

API Service Classifications CF/SF
US Military specifications MIL-L-2104D and MIL-L-46152B
SABS 1361, 400-A, 400 and 399
CCMC requirements
Leyland BLS-OL-02
Caterpillar API CF/TO-2
Daimler-Benz 228.1
GMDD Allison C-3, GMDD 7SE 270
Ford ESE-M2C144-A, ESE-M2C-87-A, ESN-M2C121-B, ESE-M2C153-C
ESEE-M2C1004-A, SM-2C1016-A and SSM-2C9001-AA
GM 6048-M and GM 6049-M
Mack EO-J
ADE Annexures C and E
ACEA Service Class. E2 - 98

Page: 1/2	Date: 01/02/2002	Supersedes: New
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Specifications:

SAE GRADE	10W	20	30	40 / LOCO
Density @ 15°C	0,878	0,884	0,890	0,893
Viscosity cSt @ 40°C	35	70	100	145
Viscosity cSt @ 100°C	6,2	8,95	11,44	14,76 / 15.02
Viscosity Index	101	101	101	101
Flash Point (COC) (°C)	210	215	235	240
Pour Point (°C)	-32	-27	-22	-16
Sulphated Ash, % m/m max.	1,0	1,0	1,0	1,0
Total Base Number, mg KOH/g	8,0	8,0	8,0	8,0 / 12.4

Application:

SAE Engine Oils are recommended for heavy duty naturally aspirated and turbo-charged diesel engines and also petrol engines.

Viscol SAE 50 is approved for Caterpillar final drives of track transmissions and is Viscol's primary recommendation for Fuller transmissions.

Viscol SAE 10 and SAE 30 are Allison C-3 transmission fluids. Viscol SAE 10 is widely used in hydraulic systems and torque converters. Viscol SAE series (like all other oils containing zinc as an additive) must not be used in engines using silver as a bearing metal.

Experienced personnel from our Technical Division are available for discussion on all aspects. Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for his/her own use.

The products discussed are sold without any warranties either expressed or implied, including warranties of merchantability and of fitness for particular purpose.

Page: 2/2	Date: 01/02/2002	Supersedes: New
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