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TECHNICAL DATA SHEET

HB-1106

FLEETGUARD MOTOR OIL

SAE Grades - 10, 20, 30, 40, 50 and 15w40

DESCRIPTION:

- Premium quality engine oil manufactured from selected low-sulfur high viscosity index base oils
- Available in single and multi-viscosity grades
- Compounded with an excellent additive package that insures outstanding performance in both gasoline and diesel engines operating in severe operating conditions
- Use of ashless dispersants keep the sulfated ash level below the 1% maximum limit called for by Detroit Diesel while still satisfying the requirements for supercharged diesel engines using high sulfur fuels
- Unique additive package provides the control of rust, wear and deposits in gasoline engines required by the auto makers for warranty protection.
- Undue thickening of oils during the recommended oil drain periods for gasoline and diesel engines is prevented by a specially selected oxidation inhibitor, and the high level of extreme pressure anti-wear additive protects against valve train wear and scuffing of other highly loaded parts under the boundary lubrication
- Acid attack of precision engine parts is controlled by a very effective corrosion inhibitor, and a de-foaming additive prevents air entrapment

ADVANTAGES:

- One oil for all services (gasoline and diesel)
- One oil- prevents oil misapplications
- Excellent performance in hot and cold applications
- Excellent oxidation stability – protects against undue oil thickening
- Low ash level – prevents valve face deposits
- Top performance – with high and low sulfur diesel fuels
- Excellent wear package – prevents bearing rust and corrosion
- High detergency level – excellent deposit control in ring and belt areas
- Multi-purpose performance – provides excellent service to both gasoline and diesel
- Long engine life – control of deposits and wear means long engine life.

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TYPICAL USES:

- Developed and recommended for all makes of automotive diesel and gasoline engines under most operating conditions.
- Recommended for all MACK engines where EO-H, EO-K, and EO-J are specified.
- Meets the "low ash" requirements of Detroit Diesel Allison Division of General Motors Corporation.
- Meets the warranty requirements of all U.S. car makers and is recommended for all gasoline engines that need an oil for API Service SE and SF.
- Meets the requirements specified or recommended by:

Caterpillar Tractor Company
 Cummins Engine Company
 Detroit Diesel Allison
 Mack EO-H, EO-K, EO-J
 International Harvester
 GM 6048-M
 and SF GM 6049-M

American Motors
 Chrysler Recommendations
 Ford ESE M2C101 C
 Ford ESE M2C144A
 Ford ESE M2C153B
 For API Service CC, CD, SE

The SAE 10W and 30 grades are highly recommended and highly used as an Allison Type C-3 fluid. The SAE grades 10w30 and 15w40 give excellent performance as a Caterpillar TO-2 fluid. SAE 10W meets Vickers' hydraulic fluid requirements.

SPECIFICATIONS TEST:

	10	30	15w40	40
Viscosity cSt@100°C	7.0	11.5	14.5	15.0
Viscosity Index	120	107	135	98
Pour Point, °F	-30	-10	-20	0
Sulfated Ash, Wt. %	0.8	0.8	0.8	0.8
Zinc, Wt. %	0.12	0.12	0.12	0.12
Total Base #(D2996)	8.0	8.0	8.0	8.0
API Service	SF/CD	SF/CD	SF/CD	SF/CD
MIL-L-46152B & MIL-L-2104	PASS	PASS	PASS	PASS