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TECHNICAL DATA SHEET

HB-1107

Fleetguard Plus with Lubrafilm

DESCRIPTION:

- A revolutionary new motor oil which combines the latest friction and heat reduction additives with the finest quality 100% paraffin base oils.
- Through advanced research and product development this red-colored oil has been formulated to provide maximum protection and performance that far surpass the service requirements of most oils and add years of trouble free performance to your engines, whether gasoline, diesel, natural gas or liquified petroleum gas engines.
- Designed to ensure optimum performance in a wide variety of mixed fleet equipment under the most adverse operating conditions.
- Has exceptionally high film strength and the most modern low ash (1 % max.) additive available.
- Provides unusual protection against:

| | | | |
|-----------|--------------|-------------------|---------------|
| Varnish | Sludge | Wear | Heat |
| Oxidation | Scoring | High Temperatures | Foam |
| Rust | Extreme Cold | Friction | Ring Sticking |
| Acid | Corrosion | Scuffing | |

COMPOSITION:

Fleetguard is a naturally high viscosity mid-continent base oil blended with a superior additive package which has a long life and proven performance. It is blended to meet or exceed the exacting requirement of all engine manufacturers. The additives package alone contains:

| | | |
|-----------------------|----------------------|----------------------|
| Oxidation Inhibitors | Corrosion Inhibitors | Pour Point |
| Rust Inhibitors | Silicones | Oiliness Additives |
| Zinc Dithiophosphates | Anti-Scuff Additives | Dispersant Additives |
| Detergency Additives | Anti-Wear Additives | Foam Inhibitors |
| | Stabilizing Agents | |

Fleetguard meets or exceeds the requirements of many important tests. This includes:

- Meets A.P.I. Services CB, CC, CO, CE, OF, SB, SC, SD, SE, SF & SG
- Meets Mil-L-2104D (Supersedes Mil-L-2104C for heavy duty engines and Mil-L-45199B for Supercharge Diesel) -Meets Mil-L-46152B for gasoline and diesel engines.
- Meets Mack EO's Performance (T-6 Test).
- Passes the Tornado Bore Polishing Test
- Exceeds A.S.T.M. Sequence Test 11B, IIC and VC.

COMPOSITION, Continued

- Has been turbo tested and has proven to give good performance.
- Exceeds the Alkyl Zinc requirements of:
 - Detroit Diesel (1 % ash) Mack ED-W2 & EO-J
 - Caterpillar S-3 & TO-2 O-3
 - Mil-L-2104D
 - Mil-L-461528
 - Volvo B-20
 - Ford & Chrysler
 - International Harvester

TYPICAL USES:

- 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 | American Motors |
| Cummins Engine Company | Chrysler Recommendations |
| Detroit Diesel Allison | Ford ESE M2C101 C |
| Mack EO-H, EO-K, EO-J | Ford ESE M2C144A |
| International Harvester | Ford ESE M2C153B |
| GM 6048-M | For API Service CC, CD, SE and SF GM 6049-M |
- 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 0(02996) | 10,0 | 10,0 | 10.0 | 10.0 |
| API Service | SF/CD | SF/CD | SF/CD | SF/CD |
| MIL-L-4611 52B & MIL-L-2104 | PASS | PASS | PASS | PASS |