SINCE 1839 Schaeffer MANUFACTURING COMPANY

ISO 9001 CERTIFIED

TECHNICAL DATA

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#702 SUPREME 7000 SYNTHETIC PLUS
CF-4/CF-2/CF/SM SAE 30 & 40

Supreme 7000 Synthetic Plus is a premium quality parasynthetic straight grade engine oil that is specially formulated for use in all types of gasoline and diesel equipment.

Supreme 7000 Synthetic Plus is blended from the finest quality severely hydrotreated polyalphaolefin (PAO) synthetic base fluids and solvent refined, severely hydrofinished, 100% paraffin base oils and available. This unique combination provides Supreme 7000 Synthetic plus with the following advantages:

1. **Superior Cold Weather Startability and Operating Characteristics.** This results in less friction and lubricant drag in the engine during cold weather start up.
2. **Superior Oxidative Stability.** Any oil, as it is increasingly exposed to high temperature operation, undergoes the process of oxidation; thus resulting in the oil's thickening and the buildup of acidic components. Prevention of oil oxidation is particularly important for today's hotter-running, low emission engines. Because of the PAO's and 100% paraffin base oil's uniform and closed molecular structure, the process of oxidation is greatly reduced.
3. **Excellent Resistance to Thermal Degradation.**
4. **Lower Volatility.** This results in reduced oil consumption.
5. **Lower Pour Point and Borderline Pumpability Temperature.**
6. **A High Viscosity Index.**
7. **Extended Oil Drain Capability and Intervals.**

Blended into these parasynthetic fluids is an exceptional high performance additive package. This exceptional high performance additive package provides the Supreme 7000 Synthetic Plus with the following performance benefits:

1. Excellent wear protection of low emission engines and other diesel engines running on low sulfur diesel fuel.
2. Excellent deposit protection of low emission engines and other diesel engines running on low sulfur diesel fuel.
3. Superior soot handling control.
4. Excellent protection against soot loading.
5. Excellent resistance to soot related viscosity increase, filter plugging and soot abrasive wear.
6. Excellent high temperature deposit protection which results in increased engine cleanliness.
7. High levels of TBN reserve for extended oil drain capability and effective neutralization of the corrosive and harmful acids produced during the combustion of high sulfur diesel fuels.
8. Increased engine cleanliness.
9. Excellent thermal and oxidative stability.
10. A substantial reduction in ring and cylinder wear.
11. A substantial reduction in ring sticking and breakage.
12. Superior valve train-wear protection.
13. Superior low volatility properties.
14. Substantially reduced oil consumption.
15. Excellent antifoaming properties.
16. Excellent high temperature/high shear performance in order to provide excellent oil film thickness and engine protection at high operating temperatures and shear rates, while minimizing lubricant frictional resistance.
17. Improved engine durability to keep equipment in as-new condition.
18. Increased engine life and reduced maintenance costs due to downtime.

Continued On Reverse Side

Further blended into these para-synthetic base fluids and the highly advanced proprietary performance additive package are two proven frictional modifiers, Micron Moly®, a liquid soluble type of Moly and Schaeffer Mfg's own proprietary additive Penetro® . These two proven frictional modifiers once plated, form a long lasting slippery tenacious lubricant film, which prevents the metal surfaces from coming into contact with each other. By preventing metal-to-metal contact, damaging frictional wear is prevented from occurring. This prevention of metal-to-metal contact and reduction in wear results in:

*** Increased fuel economy**
*** A low coefficient of friction**
*** Significantly less bearing, ring, piston, cylinder and valve-train wear.**
*** Increased engine efficiency**
*** Increased engine durability**
*** Increased engine life**
*** Less down-time**
*** Reduced maintenance costs**

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Supreme 7000 Synthetic Plus meets and exceeds the following specifications and manufacturers' requirements: MIL-L-2104G, MIL-L-46152E, API Classification CF-4/CF-2/CF/SM, Mack EO-K and EO-K/2, Caterpillar OL-1, OL-5, TO-2 and Cummins, Cummins NTC 400 and double NTC 400, Cummins L-10 & 14 LHST 227.0, 228.0, Scania, Volvo, Ford, General Motors, Komatsu, Dresser, Navistar, JI Case, John Deere, Allison C-4, Detroit Diesel, CCMC D-5, Mercedes-Benz Sheet 226.0.

TYPICAL PROPERTIES

SAE GRADE	30	40
Viscosity @ 40°C, Cst (ASTM-445)	97.79-110-34	136.7-150.66
Viscostiy @ 100°C, Cst (ASTM D-445)	11.5-12.5	14.5-15.5
High Temperature/High Shear Viscosity		
302°F/150°C, cP (ASTM D-4683)	3.5	3.8
Viscosity Index (ASTM D-2270)	105	105
Flash Point °F/°C (ASTM D-92)	455°/235°	500°/260°
Fire Point °F/°C (ASTM D-92)	475°/246.11°	530°/276.67°
Pour Point °F/°C (ASTM D-97)	-10°/-23.33°	-5°/-20.56°
Sulfated Ash Content % wt (ASTM D-874)	1.2	1.2
Total Base Number (ATM D-2896)	10	10
Volatility (ASTM D-2887)		
% Evaporative Loss	5.0	5.0
Copper Strip Corrosion Test (ASTM D-130)	1a	1a
Foam Test (ASTM D-892)		
Sequence I	0/0	0/0
Sequence II	0/0	0/0
Sequence III	0/0	0/0
Sequence IV	0/0	0/0