



TRACTORELF ST3 20W30



High performance multipurpose oil for agricultural equipment lubrication

APPLICATIONS

Agriculture

- Diesel engines turbo-charged or naturally aspirated
- Conventional transmission or automatic transmission system (ATF)
- Hydraulic lifts and power take offs (PTO)
- Wet brake systems
- Wet clutches
- Gasoline engines

PERFORMANCES

International Specifications

- API CE/SF, API GL4
- CCMC D4
- ACEA E1
- MIL-L-2104D, MIL-L-46152C, MIL-L-2105

OEM's Specifications

- FORD M 2 C 86A, 134D, 159B3
- MASSEY FERGUSON M127A, M1135, M 1139
- MB 227.1
- JOHN DEERE JDM J20A, J20C, J27
- CATERPILLAR TO-2
- ALLISON C4
- ZF TEMPL 06B, 07B

CUSTOMER BENEFITS

Technical profile

- Good detergent performance at high temperatures; avoid deposits on hot engine parts.
- Good dispersancy at low temperatures for engine and hydraulic systems
- Oxidation inhibition preventing lacquer and varnish formation on pistons, transmission, hydraulic systems, wet brakes.
- High viscosity at high temperature to maintain a thick lubricant film between surfaces of moving parts; oil does not thin out at high temperatures.
- High fluidity at low temperature for quick starting and high hydraulic performance in cold weather.
- Anti-wear performance extending life of engines, transmissions and hydraulic parts.
- Extreme pressure performance for "shock load"
- Good TBN retention for anti-rust and anti-corrosion protection against acid residue of fuel combustion.
- Corrosion inhibition protection non-ferrous metals in the engine or other sensitive areas.
- Anti-rust protection against oxidation of engine parts in the presence of moisture
- Anti-foam properties prevent sump overflow, cavitation corrosion and pump unpriming
- Excellent seal compatibility
- Friction reducing ensuring progressive, silent, efficient braking and clutch operation.

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Version Sept, 2005



CHARACTERISTICS

Elf Tractorelf ST 3	Method	Units	SAE 20W30
Volumetric mass at 15°C	ASTM D1298	kg/m ³	894
Viscosity at 40°C	ASTM D445	mm ² /s	103
Viscosity at 100°C	ASTM D445	mm ² /s	11.50
Viscosity Index	ASTM D2270	-	101
Pour Point	ASTM D97	°C	-33
Flash Point	ASTM D92	°C	230

The typical characteristics mentioned represent mean values

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This lubricant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard.
A safety data file conforming to the requirements of current E.U. legislation is available from your local trade consultant.