

# AGIP SIGMA TURBO PLUS



AGIP SIGMA TURBO PLUS is formulated from a premium performance additive package and selected base oil to give a long-drain service (SHPD oil) of the latest generation for supercharged diesel engines operating under severe duty, notably those of recent technology ("EURO 3÷4") according to engine manufacturer specifications. The oil can also be used in normally-aspirated diesel engines installed in vehicles engaged on urban and short-haul goods and passenger service, providing a very wide quality margin.

## CHARACTERISTICS (TYPICAL FIGURES)

### AGIP SIGMA TURBO PLUS

Characteristics	ASTM	Unit	SAE GRADE
			15W-40
Density at 15°C	D 4052	kg/l	0.886
Viscosity at 100°C	D 445	mm <sup>2</sup> /s	15.2
Viscosity at 40°C	D 445	mm <sup>2</sup> /s	111.5
Viscosity at -20°C	D 5293	mPa.s	6300
Viscosity Index	D 2270		143
Flash Point, COC	D 92	°C	220
Pour Point	D 97	°C	-30
Base Number	D 2896	mgKOH/g	11

## PROPERTIES AND PERFORMANCES

- The superior quality of the base stock used and the large percentage of additives adopted permit very long life between oil drains. Some manufacturers allow to double of the normal-oil service periods when AGIP SIGMA TURBO PLUS is used under certain service conditions in their engines.
- The superior soot dispersion capability protects against abrasive wear and sludge formation and reduces viscosity increase thus allowing lower fuel consumption through lower viscous drag.
- These results also into exceptional engine wear protection. Protects against loss of engine performance caused by excessive wear of crosshead or other engine parts. Extend time between rebuilds, increase resale value.
- Proven bore polish wear protection through OEMs and ACEA tests; outstanding engine ring and liner, valve train and bearing wear resistance. This minimizes down time, reduces operation and maintenance costs and allows better performance through engine life.
- The product exhibits marked resistance to deterioration, especially from oxidation which can be caused by prolonged high temperature operation in the presence of air and other agents.

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## SPECIFICATIONS

AGIP SIGMA TURBO PLUS meets requirements of the following service and specifications :

- API CI-4/CH-4/CG-4/CF-4/CF/SL
- ACEA E5,E3
- ACEA A3, B3, B4
- Global DHD-1
- JASO DH-1
- MAN 3275
- Mercedes Benz 228.3
- Volvo VDS-2
- Volvo VDS-3
- MTU Type 2
- VW 501/505
- Allison C4
- Cummins CES 20071/72/76/77/78
- Mack EO-M, EO-M Plus