



## PRODUCT INFORMATION

### SUPER 1

### HR MOTOR OIL SAE 10W, 20W20, 30, 40, 50

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#### CHARACTERISTICS

Super 1 HR Motor Oil is a line of high quality single grade Motor Oils featuring outstanding High Performance and long life properties.

Super 1 HR Motor Oil has been developed using top quality base oils, selected additives also FMA (Friction Modifier Additive) which ensures minimal friction, wear and tear and longer engine life.

Super 1 Motor Oil is formulated and developed to exceed the most stringent quality requirements. Suitable for long drain intervals where conditions are present.

Super 1 Motor Oil has been developed as multi grade oil which is well suited for cars with catalytic converters and cars using unleaded Petrol/gasoline or Diesel Fuel.

Super 1 Motor Oil exceeds the quality requirements for turbo powered engines.

#### QUALITIES & ADVANTAGES

- Overcomes problems with seized piston rings and sticking valves and keeps deposits in the combustion chambers and on valve heads to a minimum.
- The reduced friction therefore contributes to fuel savings.
- Dispersant and detergent additives hold the automatic cleaning process continued, properties removes ash deposits and carbon particles and keep the subsequent build-up to a minimum.

#### ANTI-WEAR AND TEAR QUALITIES

- With the oil's High Performance properties, a substantial reduction in wear and tear of engines even under the heaviest loads and working conditions is guaranteed.

#### ANTI CORROSION INHIBITOR

- Anti rust and corrosion protection and stabilized oxidation.

#### APPLICATION

- The multi grade range can be used all year round as it is a light oil which enables the engine to start in very low temperatures.
- Demonstrates its high performance properties in both petrol/gasoline and diesel engines and exceeds the quality requirements for turbo powered engines.
- Recommended as long drain oil after two changes. The usual oil change interval for diesel engines can therefore be substantially increased. However long drain intervals should not be adopted when driving under dusty conditions.

#### SAFETY/FAX/ENVIRONMENTAL

- Avoid prolonged skin contact.
- Keep petrochemicals away from children.
- If swallowed, do not induce vomiting - call a doctor.
- Do not inhale fumes.
- Do not dispose empty oil cans or oil waste in nature.

# SUPER 1

## HR MOTOR OIL SAE 10W-20W20-30-40-50 - continued

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### SPECIFICATION:

Super 1 HR Motor Oil meets, is approved or exceeds the following:

- API-Service CD+ CG-4, SH, SJ - ACEA E5-02
- MIL-L 46152B, MIL-L 46152D, MIL-L 2104D, MIL-L 2104E
- MERCEDES-BENZ, BLAD 228.1,
- MAN-norm 271 – MAN 3275
- CATERPILLAR S3 TO2 TO4 CF4 ECF-1
- MACK EO-K, EO-K2
- BRITISH LEYLAND BLS 22.04.07
- LONG DRAIN (VDS)\*
- SCANIA LONG DRAIN (LD)
- VOLVO VDS 2
- ALLISON C3-C4
- DETROIT DIESEL

### PHYSICAL DATA

SAE-grade	10W	20W20	30	40	50
VISCOSITY (cSt) mm <sup>2</sup> /s at 40°C	41.1	69.0	108	156	232
VISCOSITY (cSt) mm <sup>2</sup> /s at 100°C	6.6	9.2	12.1	15.2	19.9
VISCOSITY INDEX	115	109	102	98	98
POUR POINT, °C	-30	-24	-19	-12	-12
FLASH POINT COC, °C	204	224	244	250	250
SPEC. GRAVITY at 20°C	0.882	0.890	0.898	0.903	0.904