

MORRISON

Morrison Heavy Duty CI4 series

Product Description:

Morrison Heavy Duty CI4 Synthetic engine oil is a premium quality product that is suitable for diesel powered engines. It contains highly effective dispersant inhibitor that controls sludge and other contaminants generated during common urban stop-and-go or short trip driving conditions. Only highly stable Viscosity Index Improver is used in the formulation of this engine oil to provide consistent viscosity at high temperature, as it has the benefit of high shear stability. It consists of anti-wear active ingredient to protect metal surfaces under high load, high speed and high temperature engine operations. It provides excellent reduction in consumption of engine oil by maintaining its viscosity at high temperature. It is manufactured with high safety measure and quality control according to ISO 9001:2008 standard. CI4 has more distinctive capability with higher corrosion inhibitor and anti-oxidation additive, it allows machines or vehicles being able to travel longer with better protection on the engine from wear and tear. Recommended shelf life is 3 to 3½ yrs.

Applications / Benefits:

1. Recommends for vehicles from 3 to 10 years with euro 3 or euro 4 engines or long haul vehicles.
2. Ensures maximum engine performance and power.
3. Reduction of oil loss due to oxidation.
4. High thermal stability for high temperature turbo protection.
5. Reduces oxidation during engine operation. Recommended approximately 7,000km per oil change (This is subjected to engine in good condition, for worn out engine shorter mileage per oil change).
6. Reduces carbon, acid and sludge formations.
7. Ensures smoother, cooler and quieter engine.
8. Protection against engine internal corrosion.

Typical Characteristics:

| Test Description | Method | 15W40 | 15W50 | 20W50 |
|---------------------------------|-------------|-------|-------|-------|
| SAE Viscosity Grade | SAE J 300 | 15W40 | 15W50 | 20W50 |
| Specific Gravity @ 15 °C | ASTM D 4052 | 0.879 | 0.881 | 0.883 |
| Flash Point, °C | ASTM D 92 | 230 | 232 | 238 |
| Pour Point, °C | ASTM D 97 | -33 | -33 | -30 |
| Kinematic Viscosity, cSt @ 40°C | ASTM D 445 | 113.8 | 146.5 | 177.7 |
| cSt @ 100°C | ASTM D 445 | 15.1 | 18.5 | 19.2 |
| Viscosity Index | ASTM D 2270 | 138 | 142 | 124 |
| TBN, mgKOH/g | ASTM D 2896 | 10 | 10 | 10 |
| Color | ASTM D 1500 | ≤ 3.0 | ≤ 3.0 | ≤ 3.0 |

- API CI4
- JASO DH-1
- ACEA A3/B4