



**PRODUCT DATA SHEET**

**HD SAE 50W Full Synthetic CODE 649**

Scot Lubricants (Scot) Heavy Duty Full Synthetic 50W uses premium quality synthetic base stocks and advanced additive technology, and is formulated to provide the highest levels of equipment protection available. Scot’s Full Synthetic 50W is recommended for heavy duty diesel engines that require API CJ-4, Cummins CES 20081, Volvo VDS-4, Mack EO-O Premium Plus, Caterpillar ECF-3, and Detroit Engine Oil 93K218. Scot’s Full Synthetic 50W is a premium quality, heavy-duty multi-grade oil for all-season use in diesel powered or a mix of gasoline and diesel powered equipment. It can be recommended for service requirements of all diesel and gasoline engine manufacturers. It can be recommended for both newer and older engines. Especially designed for today’s high-performance, low emissions diesel engine equipped with Exhaust Gas Recirculation (EGR) and Diesel Particulate Filter to EPA 07 compliant engines.

**APPLICATIONS**

Scot’s Heavy Duty Full Synthetic 50W may be recommended for the following applications:

- When CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF-4 CF, CF-2 oils are required.
- When SM, SL, SJ, SH, SG, SF oils are required.
- When a US Military CID A-A-52306 performance level is required.
- When MIL-L-210E/F oils performance level is required.
- ACEA E7, E5-02, JASO DHD-1, Global DHD-1
- When GM4718M/6094M and Ford M2C153-E oils are required.
- In all diesel and gasoline engines, including turbo-charged models.
- Detroit Engine Oil, DDC 93K218
- In Caterpillar engines ECF-3
- Mack Engines EO-O, EO-N, EO-M, Premium Plus, EO-M, EO-L Plus, EO-L, EO-K/2
- In Cummins engines CES 20071, 20076, 20077, 20078, 20081
- In Volvo VDS-4, VDS-3, VDS-2, and VDS engines
- Caterpillar Engines ECF-1-a & Drive Trains TO-2
- When Allison C-3/C-4 fluids are required
- Mercedes Benz MB 228.3
- Renault, RLD-3

**SELECTION**

Listed below are the physical and chemical characteristics of Scot’s Heavy Duty Full Synthetic 50W Oil. Follow equipment manufacturer recommendations and conventional guides to determine the best oil for specific applications.

<b>SAE GRADE</b>	<b>HD Full Synthetic 50W</b>
Product Code	649
Gravity, API	30.0
Viscosity @ 40°C, cSt	111.0
Viscosity @ 100°C. cSt	15.5
Viscosity Index	146
Pour Point: °C	-32
Flash Point: °C	231
Borderline Pumping: °C	20
Sulfated Ash wt%	>1.0
Total Base Number	10
API Licensed Service:	CJ-4, CI-4 PLUS, CI-4, CH-4, CF-4, CF, CF-2, CE, CD-II/SL SM