



PRODUCT DATA SHEET

HD FULL SYNTHETIC 5W-20 CODE: 650

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Scot Lubricants LLC (Scot) Heavy Duty Full Synthetic Motor Oils are advanced full synthetic engine oils designed to keep your engine running like new by providing exceptional wear protection, cleaning power and overall performance. Scot's Heavy Duty Full Synthetic oils meet or exceeds the requirements of the industry's toughest standards. Scot's Heavy Duty Full Synthetic Motor Oils are made with a proprietary blend of high performance synthetic base stocks fortified with a precisely balanced component system. The viscosity grade is one of the most recommended viscosity grades for new cars. It is uniquely designed to assist in providing unsurpassed levels of performance, cleaning power and engine protection, while meeting the demanding ILSAC GF-5 performance standards.

APPLICATIONS:

Scot's Heavy Duty Full Synthetic engine oils may be recommended for the following:

- When CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF, CF-2 oils are required.
- When SM, SL, SJ, SH, SG, SF, oils are required.
- When U.S. Military CID A-A-52306 are required.
- When MIL-L-210E/F oils performance level is required.
- When GM 4718M/6094M and Ford M2C 1 53-E are required.
- In all diesel and gasoline engines, including turbo-charged models.
- Detroit Diesel Oil, DDC 93K218
- In Caterpillar engines ECF-3
- Mack engines (EO-O, EO-N, EO-M, EO-M Plus, EO-L Plus, EO-L)
- Cummins Engines CES 20071,20077, 20076, 20078, 20081,
- Allison C-3/C-4
- Caterpillar ECF-1a & Drive Trains TO-2
- Mercedes Benz MB 228.3
- Renault, RLD-3

Listed below are the typical physical and chemical characteristics of Scot Lubricants Full Synthetic motor oils. Follow equipment manufacturer recommendations for specific applications.

SAE GRADE: Full Synthetic	HD 5W-20	HD 5W-30	HD 10W-30	HD 10W-40	HD 10W-50	HD 15W-40	HD 15W-50	HD 20W-40	HD 20W-50
Product Code	650	651	664	665	655	656	657	658	659
API Gravity	32.78	34.5	32.7	32.1	32.1	31.5	32.6	31.8	32.6
Viscosity @40°C, cSt	49.21	61.7	10.49	13.5	19.1	15.5	19.1	15.7	17.05
Viscosity @ 100°C, cSt	8.59	11.0	64.75	90.89	144.0	111.0	148.9	118.5	131.0
Viscosity Index	153	172	151	150	151	146	145	140	142
Pour Point: °C	-44	-42	-42	-38	-35	-37	-35	-33	-32
Flash Point, °C	230	230	250	245	232	249	260	252	259