

T5X® Heavy Duty Motor Oil – Monogrades

76® T5X Heavy Duty monograde motor oils are high-quality diesel engine oils designed primarily for use in high-output, 2-stroke cycle diesel engines. They are particularly recommended for use in 2-stroke cycle diesel engines in transit buses and marine fleets running on low-sulfur diesel fuel. They also may be used in some heavy-duty manual transmissions in trucks and buses.

T5X Heavy Duty monograde motor oils are formulated to provide excellent wear protection, to minimize the formation of sludge and varnish, to protect against rust and bearing corrosion, and to resist foaming. Their low ash content helps minimize the formation of ash deposits on valve seats and faces, and helps keep intake ports clear to maintain good power output in 2-stroke cycle applications.

T5X Heavy Duty monograde motor oils SAE 30, 40 and 50 meet or exceed the performance requirements of API Service Categories CF-2 and CF, and also may be used in applications where API CD quality oils are specified. The SAE 10W and 20W-20 viscosity grades are intended for use in the hydraulic systems and hydrostatic transmissions of Caterpillar and other off-highway construction equipment. They are **not** recommended for use in engines.

Applications

- 2-stroke cycle diesel engines in bus fleets and marine fleets
- Off-highway trucks, heavy equipment and farm equipment
- Medium and heavy-duty manual transmissions where the OEM specifies engine oil
- Hydraulic systems and some hydrostatic transmissions on Caterpillar and other off-highway equipment

T5X Heavy Duty monograde motor oils meet or exceed the requirements of:

- API Service CF-2 (obsolete), CF (SAE 30, 40, 50)
- Detroit Diesel 2-stroke cycle engines, Oil Type 1 (1.0% max. sulfated ash) (SAE 40)
- ArvinMeritor, Dana Spicer and Eaton Fuller transmissions (SAE 30, 40, 50)

Heavy-Duty Diesel Engine Oil

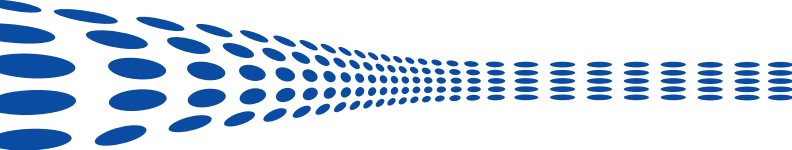
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Features/Benefits

- Low ash content minimizes the formation of ash deposits and helps keep intake ports clean
- Protects against sludge and varnish formation
- Protects against scuffing and wear
- Protects against rust and bearing corrosion
- Good resistance to foaming and aeration

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Typical Properties

SAE Grade	10W	20W-20	30	40	50
Specific Gravity @ 60°F	0.872	0.875	0.879	0.880	0.887
Density, lbs/gal @ 60°F	7.26	7.29	7.32	7.33	7.39
Color, ASTM D1500	L 2.5	4.0	4.0	4.0	4.0
Flash Point (PMCC), °C (°F)	194 (381)	194 (381)	194 (381)	205 (401)	207 (405)
Pour Point, °C (°F)	-39 (-38)	-36 (-33)	-33 (-27)	-27 (-17)	-27 (-17)
Viscosity, Kinematic					
cSt @ 40°C	48.0	72.0	92.0	143	210
cSt @ 100°C	7.5	8.5	11.0	15.4	20.0
Viscosity Index	122	116	115	110	107
Cold Cranking Viscosity, cP	5,900	3,500	—	—	—
@ (°C)	(-25)	(-15)			
High-Temp/High-Shear Viscosity, cP @ 150°C	—	—	3.6	4.3	5.1
Sulfated Ash, ASTM D874, wt %	0.94	0.94	1.0	1.0	1.0
Total Base Number (TBN), ASTM D2896	7.5	7.5	8.1	8.1	8.1
Zinc, wt %	0.103	0.103	0.109	0.109	0.109

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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