

CHAMPION PDS

PRODUCT DATA SHEET

ALL-FLEET T HD DIESEL OIL

Champion All Fleet T® series engine oils are designed to provide premium performance to meet the needs of the next generation of heavy duty engines. Increased power density, reduced oil volume and extended drain intervals place unique demands on engine oils to control oxidation by-products, sludge and deposits. Due to higher shear stress and lower viscosity minimums for engine oils, only oils with the highest wear protection and viscosity stability can maximize the performance and life of advanced diesel engines. Champion All Fleet T® builds on a long, trusted history protecting hard-working diesel engines.



Oxidation Control- Controlling oxidation is a key performance improvement for the API engine oil upgrades. Champion All Fleet T® series engine oils exceed industry and OEM oxidation performance, allowing users to achieve longer drain intervals, reduce maintenance and downtime, and extend engine life. Controlling oxidation, corrosive acids, sludge and varnish precursors allows for extended drains and minimized wear.

- Oxidation lower than OEM limits in over 60,000 mile on-highway and 600 hour off-highway drain intervals.
- Over 45% reduction in end-of-test oxidation in the new Volvo T-13 oxidation engine test.

Wear Control- Champion All Fleet T® series engine oils keep your engines going longer by reducing engine wear, preventing high temperature corrosion and controlling abrasive soot contamination, even while allowing for improved fuel economy and lower total cost of ownership.

- Over 75% less pushrod wear and 85% less injector screw wear than CJ-4 oils in proprietary, extra-severe engine testing.
- Outperformed corrosion bench testing limits by 70% for copper and over 98% for lead and tin.

Champion ALL-FLEET T CK-4 Oils Meet or Exceed the Following Specifications:

- API CK-4, CJ-4, CI-4 Plus
- ACEA E7-12, E9-12
- JASO DH-2
- Volvo VDS-4.5, VDS-4
- Cummins CES 20086, CES 20081
- Detroit Diesel DF593K218
- Detroit Diesel DF593K222
- Ford WSS-M2C171-F1
- Mack EO-O Premium Plus
- Renault VI RLD-3
- CAT ECF-3

PART# 4158 - 15W-40

PART# 4160 - 10W-30

Available in:

4158H	-	1 Quart
4158N	-	1 Gallon
4158U	-	2.5 Gallon
4158D	-	5 Gallon
4158AN	-	55 Gallon
4160H	-	1 Quart
4160N	-	1 Gallon
4160AN	-	55 Gallon

TYPICAL PROPERTIES:

PRODUCT CODE:	4158
cSt @ 40°C	120
cSt @ 100°C	15.5
VISCOSITY INDEX	135
COLD-CRANKING VISCOSITY	6400 @ -20°C
PUMPING VISCOSITY	23000 @ -25°C
HTHS @ 150°C, cP	4.3
NOACK VOLATILITY	10
ZINC	1250 PPM
PHOSPHORUS	1140 PPM
OXIDATION RESISTANCE, MINS	283*
TBN, mgKOH/g	10.2

PRODUCT CODE:	4160
cSt @ 40°C	80
cSt @ 100°C	11.7
VISCOSITY INDEX	140
COLD-CRANKING VISCOSITY	6200 @ -25°C
PUMPING VISCOSITY	20000 @ -30°C
HTHS @ 150°C, cP	3.5
NOACK VOLATILITY	12
ZINC	1250 PPM
PHOSPHORUS	1140 PPM
OXIDATION RESISTANCE, MINS	283*
TBN, mgKOH/g	10.2

*PDS DATA COLLECTED FOR SAE 10W-30, API CK-4 VISCOSITY GRADE

FOR HEALTH / SAFETY INFORMATION - REFER TO THE SDS at WWW.CHAMPIONBRANDS.COM

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