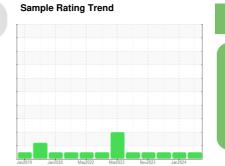


OIL ANALYSIS REPORT





NORMAL

Machine In

Wear

oil

425044-401385 Component

Diesel Engine Eluic

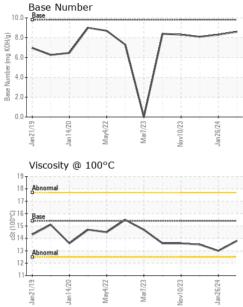
PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS SAMPLE INFORMATION method GFL0112220 GFL0098708 GFL0098738 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 15 Mar 2024 26 Jan 2024 13 Dec 2023 Machine Age hrs Client Info 16387 16255 6220 All component wear rates are normal. Oil Age hrs Client Info 150 600 150 Oil Changed Client Info Not Changd Changed Not Changd Contamination Sample Status NORMAL NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition Fuel >3.0 WC Method <1.0 <1.0 <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG NEG NEG alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method NEG NEG NEG WEAR METALS >120 10 30 29 Iron ppm ASTM D5185m ASTM D5185m >20 0 2 Chromium ppm <1 Nickel >5 0 ppm ASTM D5185m <1 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m >2 0 0 0 ppm >20 0 3 Aluminum ppm ASTM D5185m 1 0 3 Lead ASTM D5185m >40 ppm <1 ASTM D5185m >330 0 2 2 Copper ppm 0 1 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm ADDITIVES Boron mag ASTM D5185m 0 0 5 1 Barium ASTM D5185m 0 0 0 0 ppm 57 58 Molybdenum ASTM D5185m 60 59 ppm 2 ASTM D5185m 0 Manganese ppm 0 <1 Magnesium ASTM D5185m 1010 979 915 983 ppm Calcium ppm ASTM D5185m 1070 1090 1037 1038 Phosphorus ASTM D5185m 1150 1048 1095 972 ppm Zinc ppm ASTM D5185m 1270 1207 1274 1267 Sulfur ASTM D5185m 2060 3534 3129 2728 ppm CONTAMINANTS 7 3 Silicon ASTM D5185m >25 1 ppm Sodium ASTM D5185m 4 ppm <1 <1 Potassium ASTM D5185m >20 0 2 ppm <1 **INFRA-RED** 2 % 0.9 0.4 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 6.2 8.4 9.1 Sulfation *ASTM D7415 >30 19.3 19.4 23.0 Abs/.1mm FLUID DEGRADATION 16.3

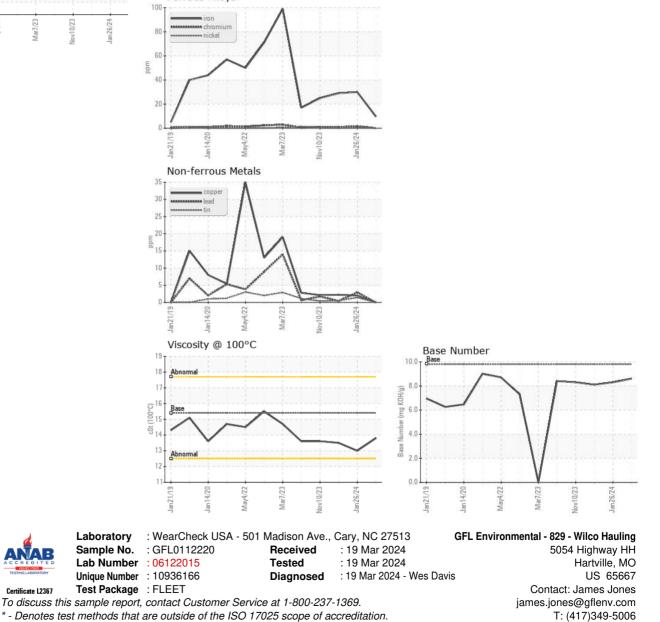
*ASTM D7414 >25 14.0 16.2 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8 8.6 8.3 8.1

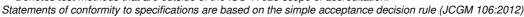


OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.0	13.5
GRAPHS						
Ferrous Allovs						





F: