

OIL ANALYSIS REPORT

NORMAL

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

oil is suitable for further service.

Wear

oil

Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

SAMPLE INFORMATION method GFL0098896 GFL0098892 GFL0099024 Sample Number **Client Info** Resample at the next service interval to monitor. Sample Date Client Info 03 May 2024 11 Apr 2024 21 Mar 2024 Client Info Machine Age hrs 4563 4382 4050 Oil Age hrs Client Info 4050 4050 3623 All component wear rates are normal. Oil Changed N/A N/A **Client Info** Changed NORMAL Sample Status NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION 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 Glycol WC Method NEG NEG NEG WEAR METALS >120 17 15 19 Iron ppm ASTM D5185m ASTM D5185m >20 Chromium ppm <1 1 <1 Nickel >5 n 4 ppm ASTM D5185m 4 Titanium ppm ASTM D5185m >2 <1 <1 <1 Silver ASTM D5185m >2 0 0 <1 ppm 2 Aluminum >20 3 ppm ASTM D5185m 1 0 Lead ASTM D5185m >40 1 0 ppm ASTM D5185m >330 3 8 Copper ppm <1 2 0 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m <1 <1 <1 Cadmium 0 0 ASTM D5185m 1 ppm ADDITIVES Boron mag ASTM D5185m 0 0 0 0 Barium ASTM D5185m 0 0 0 0 ppm 58 Molybdenum ASTM D5185m 60 57 56 ppm ASTM D5185m 0 Manganese ppm 0 1 <1 Magnesium ASTM D5185m 1010 859 838 933 ppm Calcium ppm ASTM D5185m 1070 1033 1059 1306 Phosphorus ASTM D5185m 1150 1010 986 1045 ppm Zinc ppm ASTM D5185m 1270 1156 1113 1312 Sulfur ASTM D5185m 2060 2953 2988 3567 ppm CONTAMINANTS 8 5 3 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m 37 2 ppm <1 Potassium ASTM D5185m >20 34 2 3 ppm **INFRA-RED** % 0.3 0.8 0.5 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 9.4 7.2 8.7 Sulfation *ASTM D7415 >30 19.5 19.3 19.6 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 16.5 13.8 15.4 Oxidation Abs/.1mm

Base Number (BN) mg KOH/g ASTM D2896 9.8

Report Id: GFL084 [WUSCAR] 06174959 (Generated: 05/10/2024 16:44:16) Rev: 1

Submitted By: GFL084, GFL842, GFL844, GFL846 - ROBERT THIBAULT Page 1 of 2

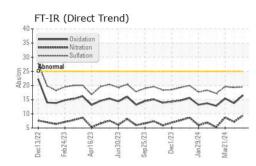
7.7

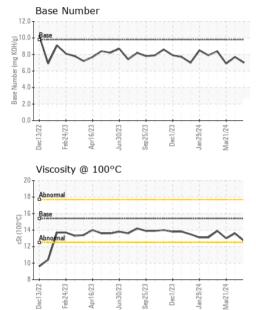
6.9

7.0



OIL ANALYSIS REPORT



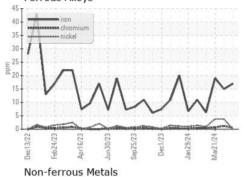


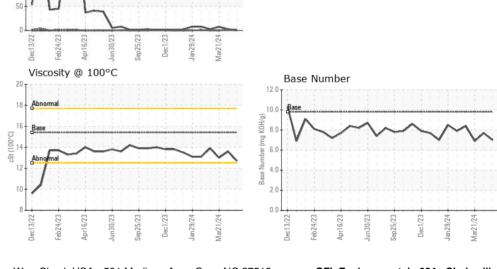
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	12.7	13.6	13.0
CRADHS						

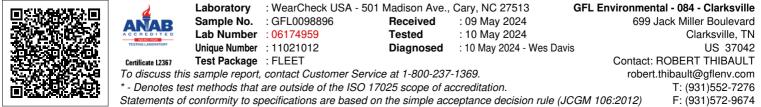
Ferrous Alloys

250

200 150 100







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