

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil

Machine In 420053-485 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)



## SAMPLE INFORMATION method GFL0110597 GFL0100193 GFL0100239 Sample Number **Client Info** Resample at the next service interval to monitor. 22 Feb 2024 Sample Date Client Info 09 Jan 2024 14 Dec 2023 Machine Age hrs **Client Info** 6767 111909 111910 All component wear rates are normal. Oil Age hrs Client Info 6767 78010 0 Oil Changed Client Info Not Changd N/A Not Changd Sample Status NORMAL NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fuel >6.0 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 acceptable for the time in service. Glycol WC Method NEG NEG NEG WEAR METALS >100 15 12 8 Iron ppm ASTM D5185m ASTM D5185m >20 <1 0 0 Chromium ppm 2 Nickel >2 ppm ASTM D5185m <1 1 Titanium ppm ASTM D5185m 0 0 0 Silver ASTM D5185m >2 0 0 0 ppm 2 Aluminum >25 4 3 ppm ASTM D5185m 0 0 Lead ASTM D5185m >40 0 ppm ASTM D5185m >330 6 4 4 Copper ppm 0 0 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm ADDITIVES Boron ppm ASTM D5185m 0 1 <1 3 Barium ASTM D5185m 0 0 0 0 ppm 58 58 Molybdenum ASTM D5185m 60 57 ppm ASTM D5185m 0 0 Manganese ppm <1 <1 Magnesium ASTM D5185m 1010 972 999 899 ppm Calcium ppm ASTM D5185m 1070 1153 1112 1013 Phosphorus ASTM D5185m 1150 1040 1074 932 ppm

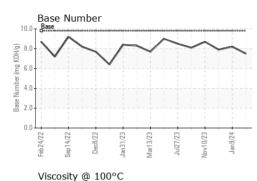
Zinc ppm ASTM D5185m 1270 1231 1307 1190 Sulfur ASTM D5185m 2060 2981 3211 2841 ppm CONTAMINANTS 5 4 4 Silicon ASTM D5185m >25 ppm 2 Sodium ASTM D5185m 3 3 ppm Potassium ASTM D5185m >20 5 3 4 ppm **INFRA-RED** S

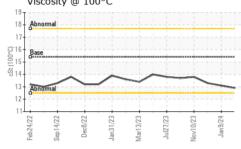
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.4	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.1	18.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm			current 15.7	history1 15.1	history2 14.7

## Report Id: GFL166 [WUSCAR] 06101339 (Generated: 02/28/2024 17:15:09) Rev: 1

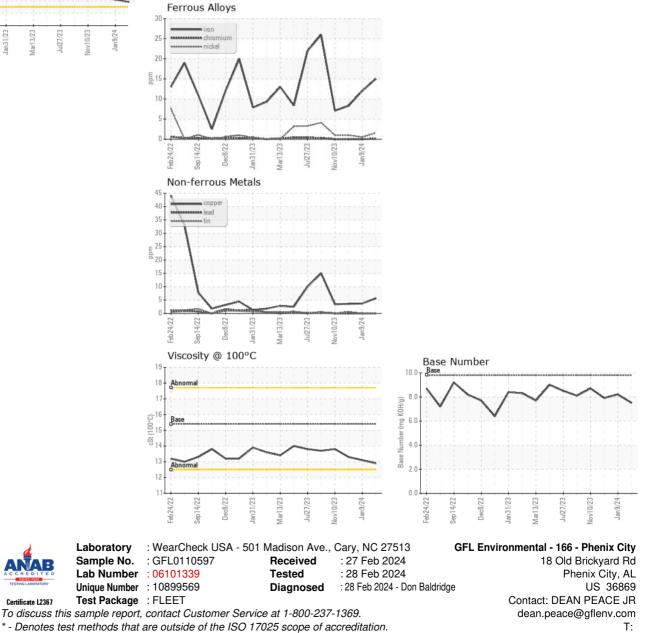


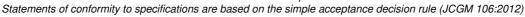
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.9	13.1	13.3
GRAPHS						





Certificate L2367

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