

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil

Resample at the next service interval to monitor.

There is no indication of any contamination in the

alkalinity remaining in the oil. The condition of the

The BN result indicates that there is suitable

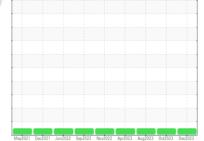
oil is suitable for further service.

All component wear rates are normal.

Machine Id 7847M

Diesel Engine

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





## SAMPLE INFORMATION method GFL0096562 GFL0096580 GFL0091525 Sample Number **Client Info** Sample Date Client Info 04 Dec 2023 23 Oct 2023 25 Aug 2023 9083 Machine Age hrs **Client Info** 8795 8352 Oil Age hrs Client Info 600 600 600 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >3.0 <1.0 WC Method <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >120 6 10 54 Iron ppm ASTM D5185m ASTM D5185m >20 Chromium ppm <1 <1 1 Nickel >5 0 ppm ASTM D5185m <1 <1 Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m >2 0 <1 <1 ppm Aluminum >20 0 1 ppm ASTM D5185m 1 Lead ASTM D5185m >40 0 ppm <1 <1 ASTM D5185m >330 6 3 Copper ppm 1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium 0 0 ASTM D5185m 0 ppm ADDITIVES Boron mag ASTM D5185m 0 0 3 <1 Barium ASTM D5185m 0 0 0 0 ppm 57 56 Molybdenum ASTM D5185m 60 63 ppm ASTM D5185m 0 Manganese ppm 0 <1 1 Magnesium ASTM D5185m 1010 924 921 971 ppm Calcium ppm ASTM D5185m 1070 1045 1018 1139 Phosphorus ASTM D5185m 1150 846 969 1001 ppm Zinc ppm ASTM D5185m 1270 1193 1226 1253 Sulfur ASTM D5185m 2060 3062 2650 3133 ppm CONTAMINANTS 3 4 Silicon ASTM D5185m >25 11 ppm Sodium ASTM D5185m 3 4 14 ppm Potassium ASTM D5185m >20 0 0 ppm <1 **INFRA-RED** 0.4 % 0.5 0.7 Soot % \*ASTM D7844 >4 Nitration Abs/cm \*ASTM D7624 >20 7.2 7.4 8.2

\*ASTM D7415

Abs/.1mm \*ASTM D7414

Abs/.1mm

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

FLUID DEGRADATION

>30

>25

19.2

14.9

7.5

Report Id: GFL465	WUSCAR10	6030286	Generated:	12/12/2023	09.40.34	) Rev: 1
Report Id. GFL403	INDSCARIU	10030200 (	Generaleu.	12/12/2023	09.40.34	) Rev. I

Sulfation

Oxidation

20.0

15.7

6.9

19.4

14.7

7.0



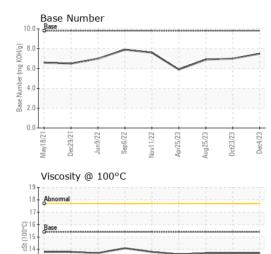
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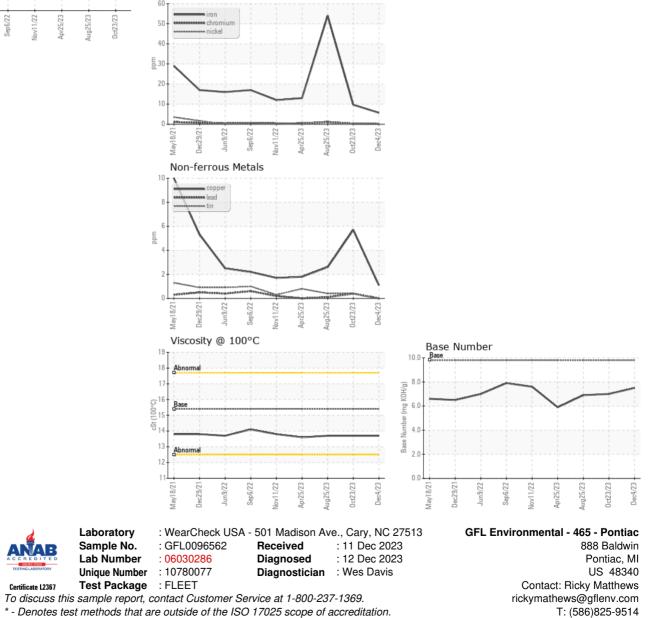
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## **OIL ANALYSIS REPORT**



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	13.7	13.7	13.7
GRAPHS						
Ferrous Alloys						



F:

