

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 411042 Component

Diesel Engine

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

J	method limit/base								orv1					
		Jana	022 A	ipr2022	Jul2022	Sep 20	22 Dec2	2022 Mar	2023 Api	2023	Jun2023	Aug2023		



#### SAMPLE INFORMATION GFL0082539 GFL0082523 Client Info GFL0075186 Sample Number 12 Jun 2023 Client Info 15 Aug 2023 Sample Date 03 Apr 2023 4845 Machine Age hrs **Client Info** 5430 4002 Oil Age hrs Client Info 609 0 602 Oil Changed **Client Info** Changed N/A Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >3.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 9 8 Iron ASTM D5185m >120 10 ppm Chromium ASTM D5185m >20 ppm <1 <1 <1 Nickel ASTM D5185m >5 0 0 0 ppm 0 ASTM D5185m >2 0 0 Titanium ppm Silver ppm ASTM D5185m >2 0 0 0 Aluminum ASTM D5185m >20 2 0 ppm <1 Lead ASTM D5185m >40 <1 <1 <1 ppm 2 2 Copper ppm ASTM D5185m >330 3 Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium 0 0 ASTM D5185m ppm <1 Cadmium ppm ASTM D5185m 0 0 0 **ADDITIVES** 0 0 0 0 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ASTM D5185m 60 63 59 59 ppm Manganese ppm ASTM D5185m 0 <1 <1 <1 1010 1066 1000 959 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 1124 1116 1084 ppm Phosphorus ppm ASTM D5185m 1150 1041 984 1009 Zinc ASTM D5185m 1270 1305 1271 1256 ppm Sulfur 2060 3292 2878 ppm ASTM D5185m 3294 CONTAMINANTS

CONTAININAN	methou			THSTOLA	nistory2	
Silicon	ppm	ASTM D5185m	>25	4	2	4
Sodium	ppm	ASTM D5185m		5	5	3
Potassium	ppm	ASTM D5185m	>20	0	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.2	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.5	19.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	18.1	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.0	7.1

### DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



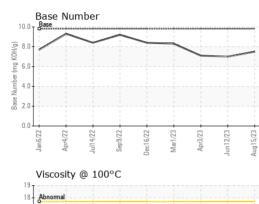
12

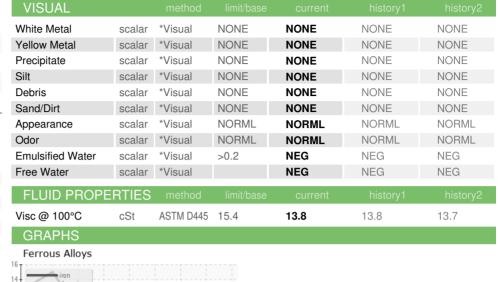
Jan6/22

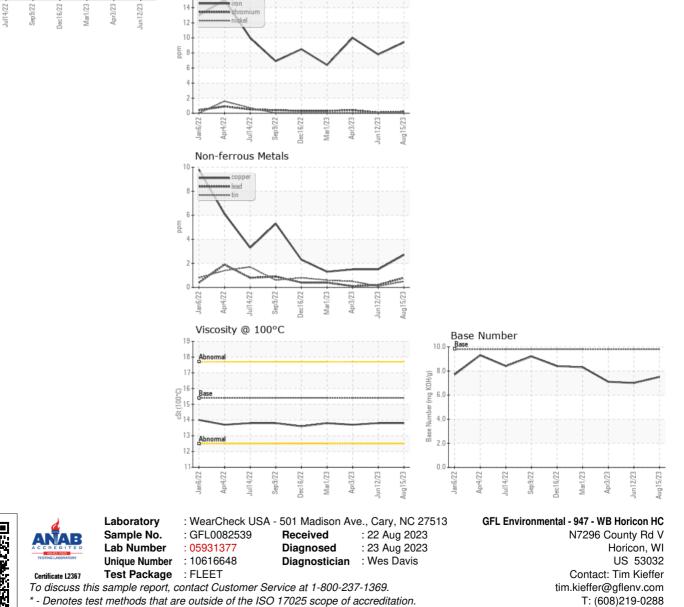
Abnorma

CC/Prul

# **OIL ANALYSIS REPORT**







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT

F: