

### **OIL ANALYSIS REPORT**

Sample Rating Trend

### DIRT

# Machine Id 929084-260355

Component Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### **Fluid Condition**

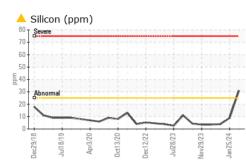
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

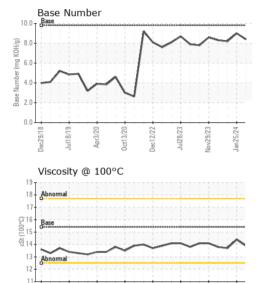
AL)		ec2018 Jul2	019 Apr2020 Oct2020	Dec2022 Jul2023 Nov2023	Jan2024	
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108066	GFL0108140	GFL0108170
Sample Date		Client Info		19 Feb 2024	25 Jan 2024	09 Jan 2024
Machine Age	hrs	Client Info		24828	24681	24660
Dil Age	hrs	Client Info		0	0	0
Dil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	6	7	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
lickel	ppm	ASTM D5185m	>4	0	<1	0
Fitanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
ead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	0	<1	1
īn	ppm	ASTM D5185m	>15	0	<1	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
/lolybdenum	ppm	ASTM D5185m	60	54	71	60
langanese	ppm	ASTM D5185m	0	<1	<1	0
lagnesium	ppm	ASTM D5185m	1010	876	1174	1014
Calcium	ppm	ASTM D5185m	1070	977	1137	1115
Phosphorus	ppm	ASTM D5185m	1150	967	1071	1056
Zinc	ppm	ASTM D5185m	1270	1184	1485	1283
Sulfur	ppm	ASTM D5185m	2060	2815	3533	2909
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>A</b> 31	9	4
Sodium	ppm	ASTM D5185m		0	<1	3
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.1	0.8
	Abs/cm	*ASTM D7624	>20	6.1	4.6	7.7
Nitration		*ASTM D7415	>30	18.9	17.9	20.9
Nitration Sulfation	Abs/.1mm	ASTIVI D7415	200		17.0	
			limit/base		history1	history2
Sulfation						



Dec29/18

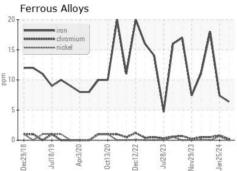
## **OIL ANALYSIS REPORT**





Jec12/22

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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.4	13.7
GRAPHS						
Ferrous Alloys						

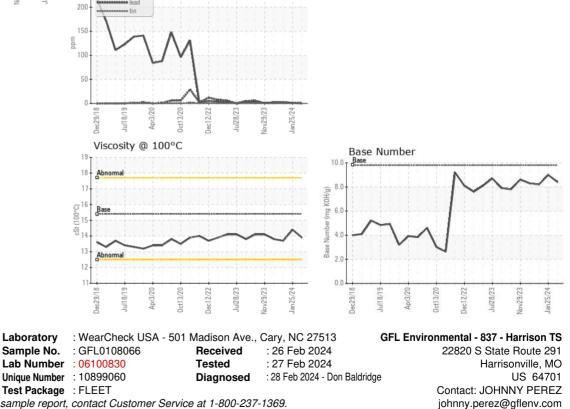


Non-ferrous Metals

Jan25/24

lov29/23

250



To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Certificate L2367

Submitted By: GFL823,834,836,837,840 - Loyce Stewart

Т:

F:

<sup>\* -</sup> Denotes test methods that are outside of the ISO 17025 scope of accreditation.