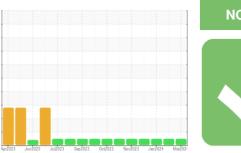


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id
913181
Component
Diesel Engine
Fluid

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

### 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

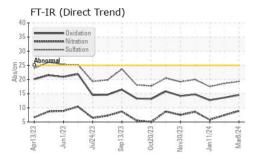
### **Fluid Condition**

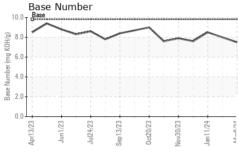
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

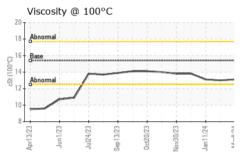
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0098859	GFL0099025	GFL0098969			
Sample Date		Client Info		08 Mar 2024	09 Feb 2024	11 Jan 2024			
	hrs	Client Info		2175	2014	1844			
	hrs	Client Info		1311	1311	1311			
Oil Changed		Client Info		Changed	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATIO	ON	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method		NEG	NEG	NEG			
Glycol		WC Method	<b>70.</b> L	NEG	NEG	NEG			
			11						
WEAR METALS		method	limit/base	current	history1	history2			
	ppm	ASTM D5185m	>120	26	15	8			
	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>5	2	1	<1			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	0	<1	0			
Aluminum	ppm	ASTM D5185m	>20	2	1	2			
Lead	ppm	ASTM D5185m	>40	0	0	<1			
Copper	ppm	ASTM D5185m	>330	2	<1	<1			
Tin	ppm	ASTM D5185m	>15	0	<1	<1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	0	<1	<1			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	56	53	53			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	937	797	966			
Calcium	ppm	ASTM D5185m	1070	1348	1123	1331			
Phosphorus	ppm	ASTM D5185m	1150	1055	988	1008			
Zinc	ppm	ASTM D5185m	1270	1329	1149	1214			
Sulfur	ppm	ASTM D5185m	2060	3776	2843	3223			
CONTAMINANT	S	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	3	4	3			
Sodium	ppm	ASTM D5185m		2	1	0			
Potassium	ppm	ASTM D5185m	>20	3	1	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.9	0.6	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.4	5.8			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.6	17.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.6	12.7			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	8.0	8.5			

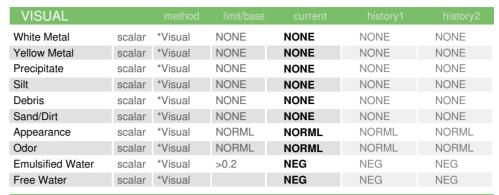


## **OIL ANALYSIS REPORT**



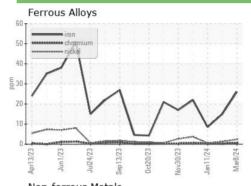




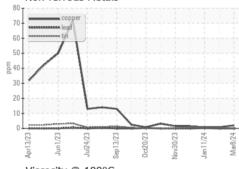


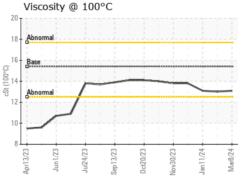
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.0	13.1

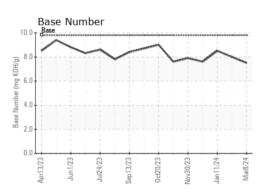
### **GRAPHS**



## Non-ferrous Metals











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098859 Lab Number : 06142095 Unique Number : 10966903

Test Package : FLEET

Received **Tested** Diagnosed

: 08 Apr 2024 : 09 Apr 2024

: 09 Apr 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com T: (931)552-7276

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

F: (931)572-9674 Submitted By: GFL084,GFL842,GFL844,GFL846 - ROBERT THIBAULT