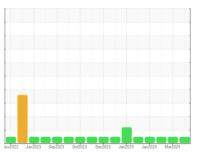


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 913148

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

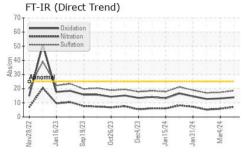
### **Fluid Condition**

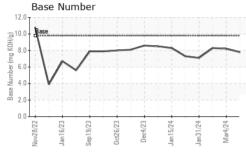
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

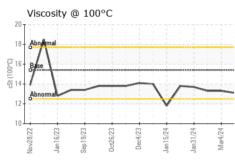
GAL) (my2022 Jun2023 Sup2023 Occ2023 Occ2023 Jun2024 Mu2024 Mu2024									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0113733	GFL0111110	GFL0111105			
Sample Date		Client Info		12 Apr 2024	04 Mar 2024	16 Feb 2024			
Machine Age	hrs	Client Info		3355	3033	2921			
Oil Age	hrs	Client Info		0	835	723			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	.S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>110	7	3	3			
Chromium	ppm	ASTM D5185m	>4	<1	0	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	7	2	3			
Lead	ppm	ASTM D5185m	>45	0	0	0			
Copper	ppm	ASTM D5185m	>85	<1	0	<1			
Tin	ppm	ASTM D5185m	>4	<1	0	0			
Vanadium	ppm	ASTM D5185m		<1	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	6	11	12			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	70	72	71			
Manganese	ppm	ASTM D5185m	0	0	0	0			
Magnesium	ppm	ASTM D5185m	1010	859	850	863			
Calcium	ppm	ASTM D5185m	1070	1046	994	1044			
Phosphorus	ppm	ASTM D5185m	1150	938	853	978			
Zinc	ppm	ASTM D5185m	1270	1136	1072	1160			
Sulfur	ppm	ASTM D5185m	2060	3231	2707	3148			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	3	2	3			
Sodium	ppm	ASTM D5185m		3	<1	<1			
Potassium	ppm	ASTM D5185m	>20	24	3	7			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	7.1	5.8	5.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	17.4	17.0			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.1	12.7			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.2	8.3			
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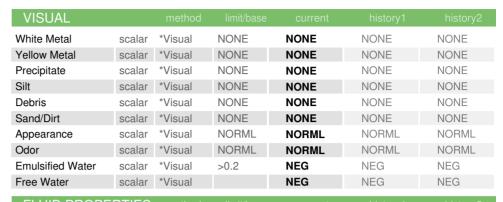


## **OIL ANALYSIS REPORT**



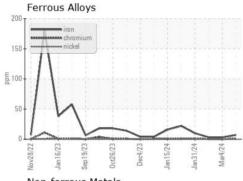


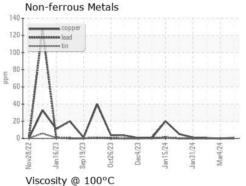


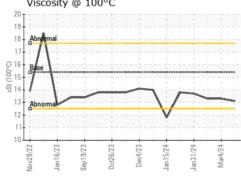


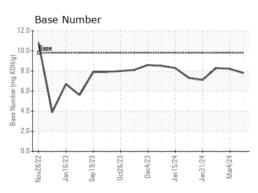
FLUID PROP	'ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.3	13.3

#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0113733 Lab Number : 06150914 Unique Number : 10980992

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

**Tested** : 17 Apr 2024 Diagnosed : 17 Apr 2024 - Wes Davis

: 16 Apr 2024

GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

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

T:

F: