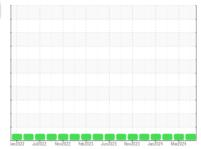


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



Machine Id
223029-8
Component

Diesel Engine

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

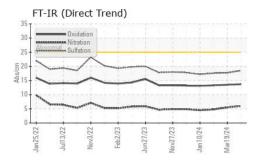
### **Fluid Condition**

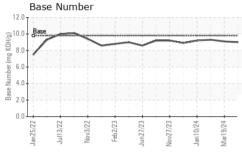
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

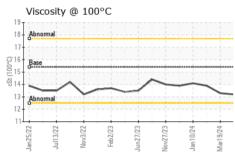
iAL)		Jan 2022 Jul 2	022 Nov2022 Feb2023	Jun2023 Nov2023 Jan2024	Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118714	GFL0110573	GFL0100270
Sample Date		Client Info		18 Apr 2024	19 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info		32723	445391	443896
Oil Age	hrs	Client Info		150	400	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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	>80	8	8	1
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	<1	2	<1
Lead	ppm	ASTM D5185m	>30	0	1	0
Copper	ppm	ASTM D5185m	>150	<1	1	0
Tin	ppm	ASTM D5185m	>5	0	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	7	8
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	62	63	60
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	992	930	979
Calcium	ppm	ASTM D5185m	1070	1108	1082	989
Phosphorus	ppm	ASTM D5185m	1150	1070	979	1103
Zinc	ppm	ASTM D5185m	1270	1269	1183	1284
Sulfur	ppm	ASTM D5185m	2060	3555	3044	3157
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	5	2
Sodium	ppm	ASTM D5185m		8	6	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.5	4.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.7	17.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	13.5	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.1	9.3

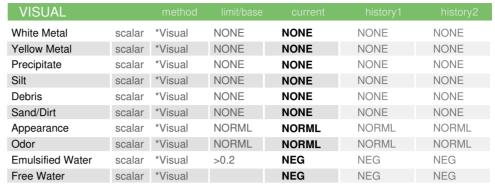


# **OIL ANALYSIS REPORT**



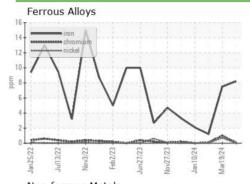


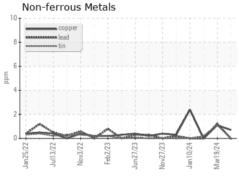


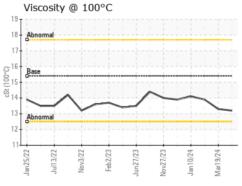


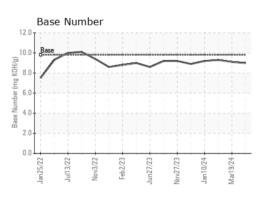
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.9	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0118714 Lab Number : 06158331 Unique Number : 10993754 Test Package : FLEET

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

: 23 Apr 2024 : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: DEAN PEACE JR dean.peace@gflenv.com

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