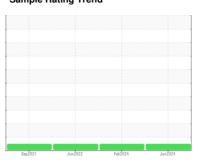


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **227011-1056** 

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.

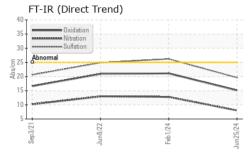
### **Fluid Condition**

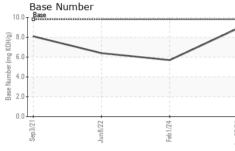
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

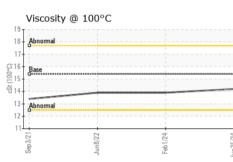
Sep. 2021 Juni 2022 Feb. 2024 Juni 2024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0054091	GFL0054118	GFL0029253	
Sample Date		Client Info		25 Jun 2024	01 Feb 2024	08 Jun 2022	
Machine Age	hrs	Client Info		11037	11037	8391	
Oil Age	hrs	Client Info		11037	1634	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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 METAL	.S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>110	29	88	54	
Chromium	ppm	ASTM D5185m	>4	<1	4	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Γitanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>25	4	9	7	
ead	ppm	ASTM D5185m	>45	2	12	8	
Copper	ppm	ASTM D5185m	>85	2	2	2	
īn	ppm	ASTM D5185m	>4	<1	2	1	
Antimony	ppm	ASTM D5185m					
/anadium	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	14	6	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Nolybdenum	ppm	ASTM D5185m	60	65	67	71	
Manganese	ppm	ASTM D5185m	0	1	2	<1	
/lagnesium	ppm	ASTM D5185m	1010	1051	900	1056	
Calcium	ppm	ASTM D5185m	1070	1185	1265	1253	
Phosphorus	ppm	ASTM D5185m	1150	1134	1126	1166	
Zinc Zinc	ppm	ASTM D5185m	1270	1421	1366	1424	
Sulfur	ppm	ASTM D5185m	2060	3974	2854	3179	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	6	15	8	
Sodium	ppm	ASTM D5185m		2	3	3	
Potassium	ppm	ASTM D5185m	>20	6	18	16	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	1.1	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	12.8	13.0	
	Abs/.1mm	*ASTM D7415	>30	19.6	26.2	24.9	
Sulfation	7100/1111111						
Sulfation FLUID DEGRAI		method	limit/base	current	history1	history2	
Sulfation  FLUID DEGRA  Dxidation  Base Number (BN)		method *ASTM D7414 ASTM D2896	limit/base	current 15.1 8.9	history1 21.1 5.7	history2 20.9 6.4	

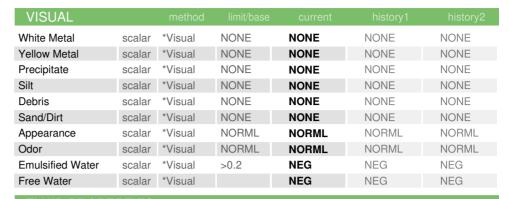


## **OIL ANALYSIS REPORT**



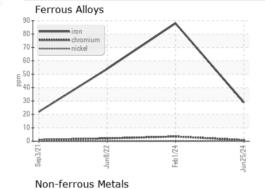


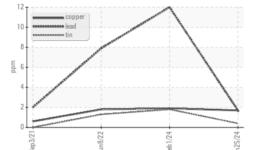


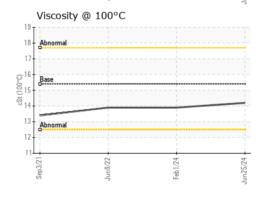


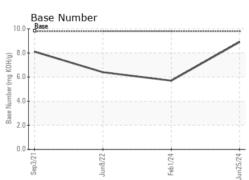
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	13.9

### **GRAPHS**













Laboratory Sample No.

: GFL0054091 Lab Number : 06222956 Unique Number : 11101153

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024

**Tested** : 28 Jun 2024 Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 630 - Northern A1 PA 117 Moonlite Dr

Smithfield, PA US 15478 Contact: MIKE NEWMAN miken@northerna1.com

T: (231)564-2362

Test Package : FLEET Certificate 12367 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)

Report Id: GFL630 [WUSCAR] 06222956 (Generated: 06/30/2024 19:38:59) Rev: 1

Submitted By: MIKE NEWMAN