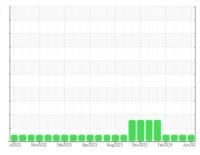


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **928113-443** 

Diesel Engine

PETRO CANADA DURON SHP 15W40 (600 GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

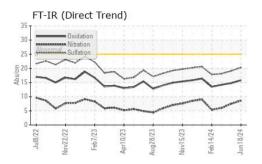
### **Fluid Condition**

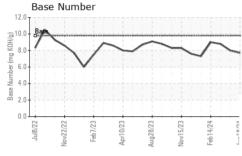
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

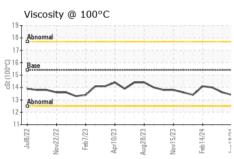
( CAL)	GAL) učozz Novčozz Feb.023 April023 Novčoz3 Feb.023 Feb.023 Vovčoz3 Feb.0224 Juničoz						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0125848	GFL0118727	GFL0110581	
Sample Date		Client Info		18 Jun 2024	08 May 2024	25 Mar 2024	
Machine Age	hrs	Client Info		23791	23558	23251	
Oil Age	hrs	Client Info		600	200	200	
Oil Changed		Client Info		Changed	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	13	7	2	
Chromium	ppm	ASTM D5185m	>20	1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	1	1	
Lead	ppm	ASTM D5185m	>40	3	<1	<1	
Copper	ppm	ASTM D5185m	>330	3	4	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	2	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	4	0	
Barium	ppm	ASTM D5185m	0	1	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	60	55	
Manganese	ppm	ASTM D5185m		<1	1	0	
Magnesium	ppm	ASTM D5185m	1010	1001	993	976	
Calcium	ppm	ASTM D5185m	1070	1099	1082	1067	
Phosphorus	ppm	ASTM D5185m	1150	1024	1049	946	
Zinc	ppm	ASTM D5185m	1270	1266	1295	1237	
Sulfur	ppm	ASTM D5185m	2060	2954	3530	3584	
CONTAMINAN		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	13	10	6	
Sodium	ppm	ASTM D5185m	00	3	5	3	
Potassium	ppm	ASTM D5185m	>20	2	0	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.5	6.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.1	18.1	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	14.8	14.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.0	8.8	



## **OIL ANALYSIS REPORT**



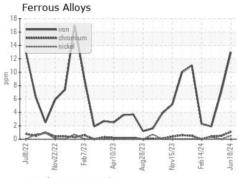


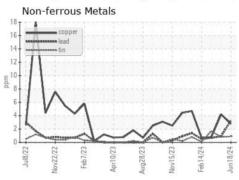


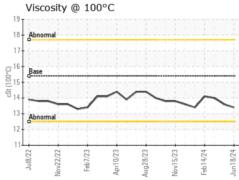
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

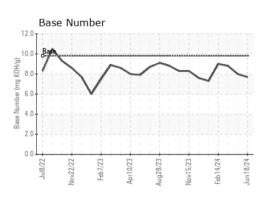
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	14.0

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06217806 Unique Number : 11096003 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0125848

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

Received **Tested** Diagnosed

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 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

\* - 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: GFL166 [WUSCAR] 06217806 (Generated: 06/25/2024 04:36:31) Rev: 1

Submitted By: DARRIN WRIGHT

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F: