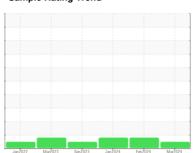


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 211005-632125

Component

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

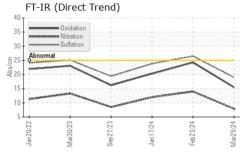
### **Fluid Condition**

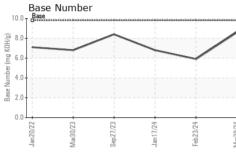
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

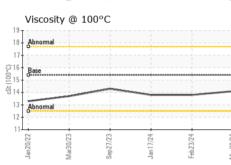
JAL)		Janzuzz	marzuza sepzuza	3 Jan2024 F802024	Marzuz4			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0114441	GFL0114467	GFL0100560		
Sample Date		Client Info		29 Mar 2024	23 Feb 2024	17 Jan 2024		
Machine Age	hrs	Client Info		4211	4034	153726		
Oil Age	hrs	Client Info		0	4034	153726		
Oil Changed		Client Info		Changed	Changed	Not Changd		
Sample Status				NORMAL	ABNORMAL	ABNORMAL		
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	>100	12	67	43		
Chromium	ppm	ASTM D5185m	>20	<1	2	2		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m		0	<1	<1		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	5	<b>△</b> 33	<u>△</u> 23		
Lead	ppm	ASTM D5185m	>40	<1	0	0		
Copper	ppm	ASTM D5185m	>330	<1	2	2		
Tin	ppm	ASTM D5185m	>15	0	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	1	0	0		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	53	62	60		
Manganese	ppm	ASTM D5185m	0	0	1	<1		
Magnesium	ppm	ASTM D5185m	1010	979	1149	1033		
Calcium	ppm	ASTM D5185m	1070	1115	1266	1134		
Phosphorus	ppm	ASTM D5185m	1150	912	1167	1066		
Zinc	ppm	ASTM D5185m	1270	1312	1451	1344		
Sulfur	ppm	ASTM D5185m	2060	3640	3206	2963		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	3	9	7		
Sodium	ppm	ASTM D5185m		0	2	2		
Potassium	ppm	ASTM D5185m	>20	5	30	20		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.5	1.8	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.9	14.0	12.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	26.5	23.8		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	24.3	20.3		
Base Number (BN)	mg KOH/g	ASTM D2896		8.6	5.9	6.8		
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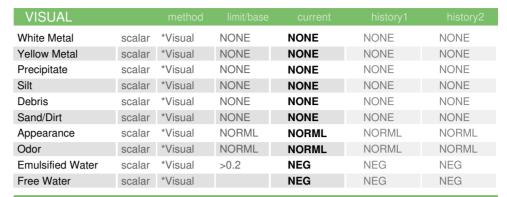


## **OIL ANALYSIS REPORT**



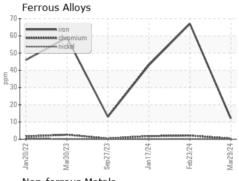


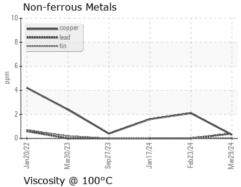


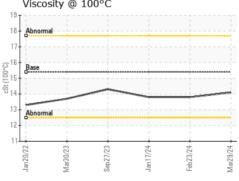


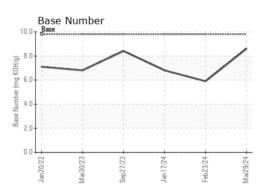
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.8	13.8

#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

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

: GFL0114441 Lab Number : 06139216 Unique Number : 10964024

Received **Tested** 

Diagnosed

: 04 Apr 2024 : 05 Apr 2024

: 05 Apr 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@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)

Report Id: GFL865 [WUSCAR] 06139216 (Generated: 04/05/2024 15:42:01) Rev: 1

Test Package : FLEET

Submitted By: TECHNICIAN ACCOUNT

T:

F: