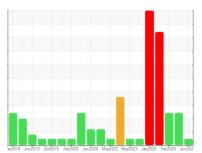


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **727107-361681** 

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

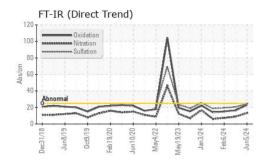
### **Fluid Condition**

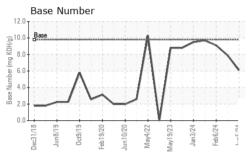
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

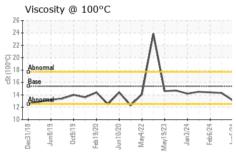
JAL)		eczoro Junzo	ia ucizula reuzuzu Juliz	UZU WIBYZUZZ WIBYZUZS SBIIZUZ4 FE	02024 Jun202	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125211	GFL0114461	GFL0103987
Sample Date		Client Info		05 Jun 2024	27 Feb 2024	06 Feb 2024
Machine Age	hrs	Client Info		17726	17157	17023
Oil Age	hrs	Client Info		0	17157	17023
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	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	48	10	10
Chromium	ppm	ASTM D5185m	>20	2	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
Lead	ppm	ASTM D5185m	>40	8	0	0
Copper	ppm	ASTM D5185m	>330	<1	12	15
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	9	12
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	54	80	79
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	909	890	893
Calcium	ppm	ASTM D5185m	1070	1125	1099	1194
Phosphorus	ppm	ASTM D5185m	1150	1050	1009	1053
Zinc	ppm	ASTM D5185m	1270	1246	1233	1331
Sulfur	ppm	ASTM D5185m	2060	3533	2724	3252
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	5	5
Sodium	ppm	ASTM D5185m		7	<u>▲</u> 102	<b>▲</b> 83
Potassium	ppm	ASTM D5185m	>20	7	<b>▲</b> 195	<b>△</b> 163
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.2	8.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	20.5	19.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	16.4	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	7.9	9.1
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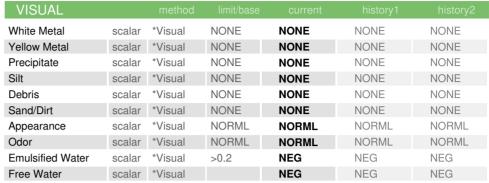


# **OIL ANALYSIS REPORT**



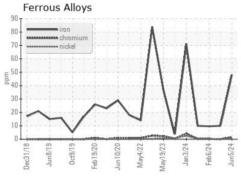


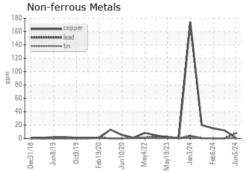


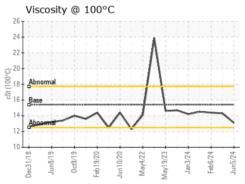


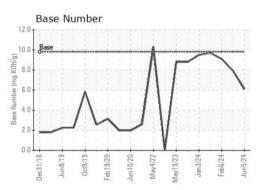
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	14.3	14.4

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06217469 Unique Number : 11090333

: GFL0125211

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 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)

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F: