

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **829030-1081** 

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

## 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

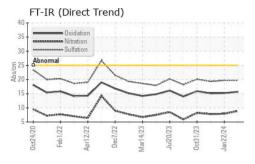
### **Fluid Condition**

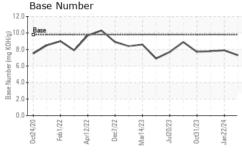
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

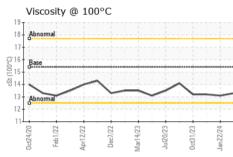
_TR)		Jet2020 Feb2	022 Apr2022 Dec2022	Mar2023 Jul2023 Oct2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113628	GFL0103881	GFL0103862
Sample Date		Client Info		01 Apr 2024	22 Jan 2024	16 Jan 2024
Machine Age	hrs	Client Info		12377	11842	11250
Oil Age	hrs	Client Info		514	592	589
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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	>110	5	11	8
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>45	<1	<1	1
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	5	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	63	57
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	789	1002	974
Calcium	ppm	ASTM D5185m	1070	1299	1198	1108
Phosphorus	ppm	ASTM D5185m	1150	1026	1075	1060
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1232	1323	1282
CONTAMINAN	ppm	method	limit/base	3093	3214	3127
Silicon		ASTM D5185m	>30	current 6	history1 4	history2 4
Sodium	ppm	ASTM D5185m	>50	4	5	4
Potassium	ppm	ASTM D5185m	>20	1	8	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.9	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.7	19.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.2	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.9	7.8

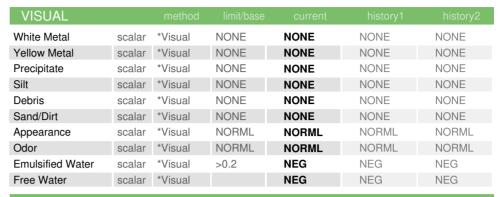


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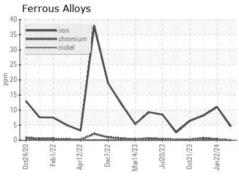


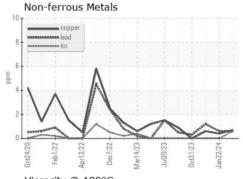


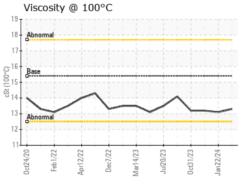


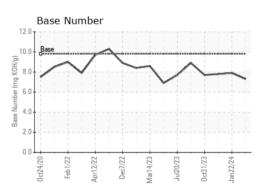
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	13.2

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113628 Lab Number : 06142152 Unique Number : 10966960

Test Package : FLEET

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA

US 23112

Contact: Corbin Umphlet cumphlet@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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