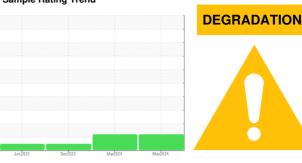


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 834002

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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.

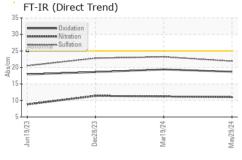
## Fluid Condition

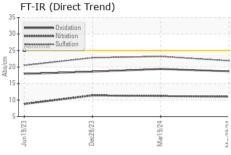
The BN level is low. The condition of the oil is acceptable for the time in service.

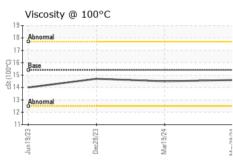
QTS)		Jun202	3 Dec2023	Mar2024 M	ay2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121758	GFL0106925	GFL0092001
Sample Date		Client Info		29 May 2024	19 Mar 2024	28 Dec 2023
Machine Age	hrs	Client Info		3079	2460	1790
Oil Age	hrs	Client Info		600	516	1790
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	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	7	14	19
Chromium	ppm	ASTM D5185m	>4	<1	1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	8	21
Lead	ppm	ASTM D5185m	>45	1	1	<1
Copper	ppm	ASTM D5185m	>85	1	2	2
Tin	ppm	ASTM D5185m	>4	1	1	<1
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	7	7	6
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	50	57	56
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	522	527	570
Calcium	ppm	ASTM D5185m	1070	1535	1617	1745
Phosphorus	ppm	ASTM D5185m	1150	660	694	690
Zinc	ppm	ASTM D5185m	1270	880	971	1015
Sulfur	ppm	ASTM D5185m	2060	2612	2395	2483
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	5	6
Sodium	ppm	ASTM D5185m		8	7	10
Potassium	ppm	ASTM D5185m	>20	13	32	63
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.2	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	23.2	22.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	19.4	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>△</b> 3.8	▲ 3.3	3.9

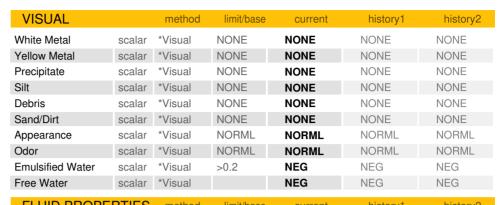


# **OIL ANALYSIS REPORT**



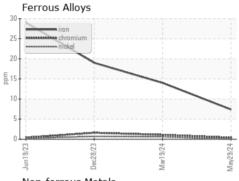


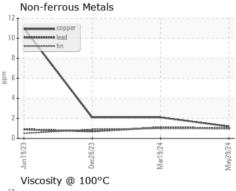


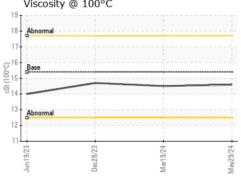


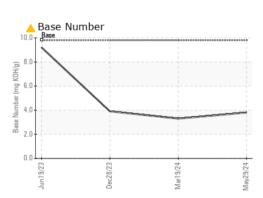
FLUID PROP	EHIIES	method	iiiiii/base	current	riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.5	14.7

#### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06201180

Test Package : FLEET

: GFL0121758 Unique Number : 11063303

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested** : 07 Jun 2024 Diagnosed

: 09 Jun 2024 - Don Baldridge

GFL Environmental - 856 - Houston South 8515 Highway 6 South Houston, TX

US 77083 Contact: Apolinar Zacarias pzacariascano@gflenv.com

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

T:

F: