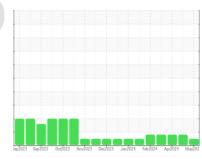


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 914032 Component

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.

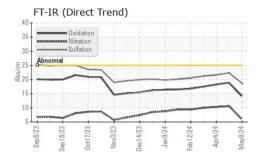
### **Fluid Condition**

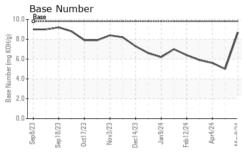
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

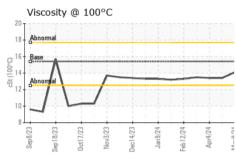
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119372	GFL0119389	GFL0115378
Sample Date		Client Info		09 May 2024	18 Apr 2024	04 Apr 2024
Machine Age	hrs	Client Info		1976	1815	1705
Oil Age	hrs	Client Info		161	110	217
Oil Changed		Client Info		Changed	Changed	Changed
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	10	49	42
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	2	<u> </u>	<u> </u>
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	4
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	19	100	94
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	66	64
Manganese	ppm	ASTM D5185m	0	<1	2	2
Magnesium	ppm	ASTM D5185m	1010	927	907	913
Calcium	ppm	ASTM D5185m	1070	1065	1059	1046
Phosphorus	ppm	ASTM D5185m	1150	1025	903	912
Zinc	ppm	ASTM D5185m	1270	1206	1150	1174
Sulfur	ppm	ASTM D5185m	2060	3541	2330	2452
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	14	13
Sodium	ppm	ASTM D5185m		<1	8	5
Potassium	ppm	ASTM D5185m	>20	7	9	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	5.9	10.6	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	22.3	21.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	18.8	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	5.0	5.6

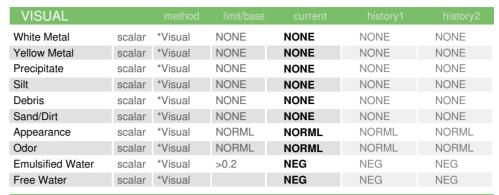


# **OIL ANALYSIS REPORT**



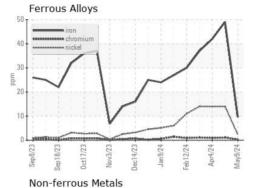


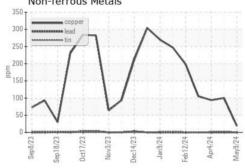


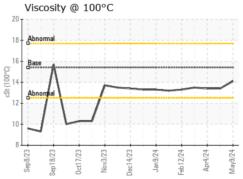


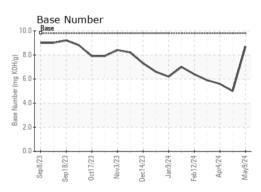
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.4	13.4

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0119372 **Lab Number** : 06178202 Unique Number : 11029528

Test Package : FLEET

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

Received : 13 May 2024 **Tested** : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@gflenv.com T:

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)

Report Id: GFL814 [WUSCAR] 06178202 (Generated: 05/14/2024 16:43:00) Rev: 1

Submitted By: Nicole Walls

F: