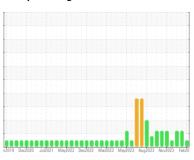


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



10986 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (36 QTS)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

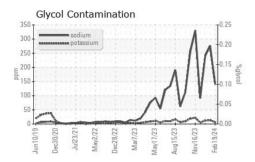
### **Fluid Condition**

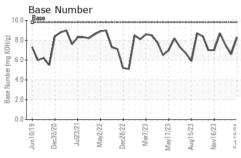
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

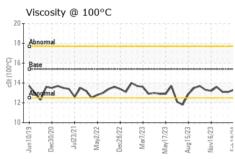
Q13)		n2019 Dec2020	) Jul2021 May2022 Dec20	022 Mar2023 May2023 Aug2023 N	ov2023 Feb20	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097172	GFL0068886	GFL0068885
Sample Date		Client Info		19 Feb 2024	08 Feb 2024	13 Jan 2024
Machine Age	hrs	Client Info		15826	15703	15596
Oil Age	hrs	Client Info		622	499	392
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	9	25	22
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	3
Lead	ppm	ASTM D5185m	>150	0	0	0
Copper	ppm	ASTM D5185m	>90	<1	<1	1
Tin	ppm	ASTM D5185m	>5	<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	5	7	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	72	69
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	936	862	942
Calcium	ppm	ASTM D5185m	1070	960	962	958
Phosphorus	ppm	ASTM D5185m	1150	1000	927	1028
Zinc	ppm	ASTM D5185m	1270	1245	1146	1221
Sulfur	ppm	ASTM D5185m	2060	3088	2733	3006
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	8	12	12
Sodium	ppm	ASTM D5185m		140	<b>276</b>	<b>240</b>
Potassium	ppm	ASTM D5185m	>20	7	13	12
Glycol	%	*ASTM D2982		0.0	NEG	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.6	10.9	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	20.9	19.6
	7100/1111111	710111127110		10.1		
FLUID DEGRAI			limit/base	current	history1	history2
FLUID DEGRAD				-		history2
	NOITAC	method	limit/base	current	history1	•

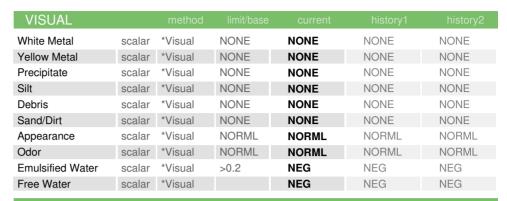


# **OIL ANALYSIS REPORT**



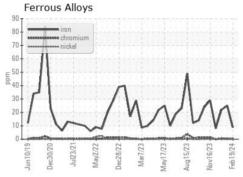




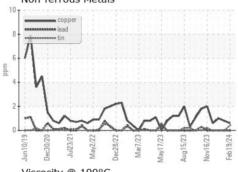


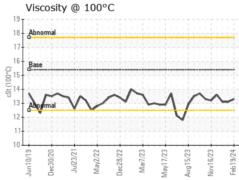
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	13.1

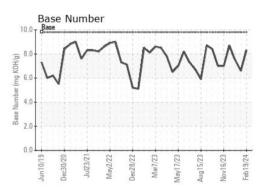
### **GRAPHS**















Certificate L2367

Laboratory Sample No. **Lab Number** : 06095355 **Unique Number** : 10888208

: GFL0097172

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

: 21 Feb 2024 Diagnosed

: 23 Feb 2024 : 23 Feb 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste 155 Story Road

Warner Robins, GA US 31093 Contact: Mike Taft

Test Package: FLEET (Additional Tests: Glycol)

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)

T: F: