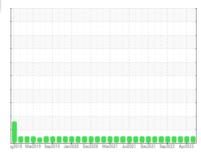


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 3807 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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

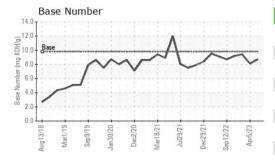
### **Fluid Condition**

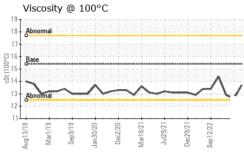
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		ıg2018 Mar201	3 Sep2019 Jan2020 Dec20	20 Mar2021 Jul2021 Dec2021 Sep2	022 Apr2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068142	GFL0068159	GFL0046501
Sample Date		Client Info		25 Sep 2023	05 Apr 2023	13 Dec 2022
Machine Age	mls	Client Info		113743	11293	52155
Oil Age	mls	Client Info		0	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	4	7	9
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	2
Lead	ppm	ASTM D5185m	>150	0	<1	4
Copper	ppm	ASTM D5185m	>90	<1	1	<1
Tin	ppm	ASTM D5185m	>5	<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	9	15	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	58	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1027	824	877
Calcium	ppm	ASTM D5185m	1070	1150	1074	1131
Phosphorus	ppm	ASTM D5185m	1150	1176	953	948
Zinc	ppm	ASTM D5185m	1270	1439	1121	1181
Sulfur	ppm	ASTM D5185m	2060	3663	2703	3273
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	29	5	5
Sodium	ppm	ASTM D5185m		1	2	3
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.5	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.2	6.7	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	18.2	20.5
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	13.3	15.1
Base Number (BN)	mg KOH/g		9.8	8.7	8.1	9.4
= 3.00 · 10.71001 (D14)		52000	5.0		0	0



# **OIL ANALYSIS REPORT**

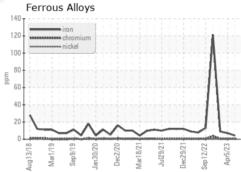


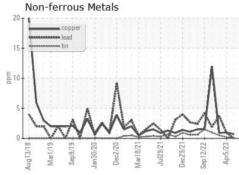


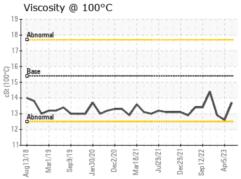
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

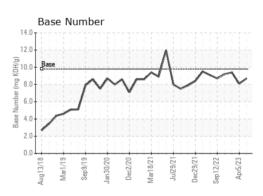
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	12.6	12.9

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10675182 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0068142 : 05968631

Received : 04 Oct 2023 : 04 Oct 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 028 - Weldon 2211 US Highway 301

Halifax, NC US 27839

Contact: TRAVIS PORCH tporch@gflenv.com

T: (252)532-3344

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)