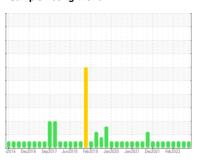


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 3697 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (8 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

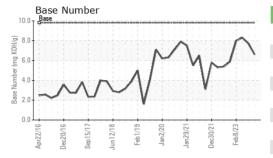
## **Fluid Condition**

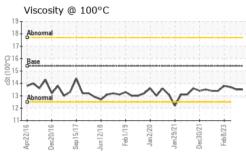
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IAL)		r2016 Dec201	6 Sep2017 Jun2018 Feb.	2019 Jan2020 Jan2021 Dec2021	Feb 2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0065060	GFL0077818	GFL0065080
Sample Date		Client Info		25 Sep 2023	17 Jul 2023	09 Mar 2023
Machine Age	mls	Client Info		298567	289515	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
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	>120	8	13	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	3	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		4	7	1
Lead	ppm	ASTM D5185m	>40	<1	4	<1
Copper	ppm	ASTM D5185m	>330	3	2	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m	710	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	25	2	11
Barium	ppm	ASTM D5185m	0	0	0	0
	ppm		60	41	65	58
Molybdenum	ppm	ASTM D5185m				
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	535	1036	908
Calcium	ppm	ASTM D5185m	1070	1718	1178	1122
Phosphorus	ppm	ASTM D5185m	1150	950	1004	993
Zinc	ppm	ASTM D5185m	1270	1152	1330	1240
Sulfur	ppm	ASTM D5185m	2060	2877	3229	3691
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	8	6
Sodium	ppm	ASTM D5185m		4	6	2
Potassium	ppm	ASTM D5185m	>20	3	15	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.7	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	21.1	18.6
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.5	14.3
Base Number (BN)	mg KOH/g		9.8	6.6	7.7	8.3
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## **OIL ANALYSIS REPORT**

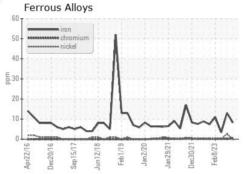


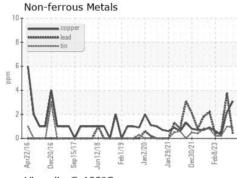


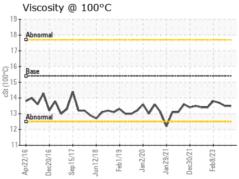
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

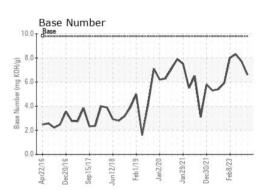
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	13.7

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0065060 : 05964093 : 10670644

Received Diagnosed

: 28 Sep 2023 : 01 Oct 2023 Diagnostician : Don Baldridge GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith

jasonsmith@gflenv.com T:

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)

F: