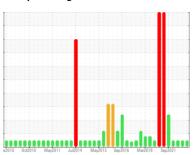


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 1956 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (42 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.

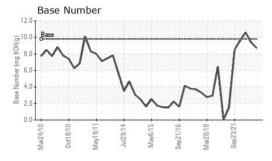
### **Fluid Condition**

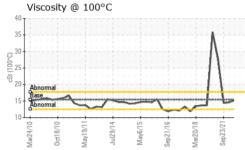
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

#2010 0x2010 May2011 Ju2014 May2015 Sap2016 Mar2018 Sap2028						
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0072367	GFL0048913	GFL0048885
Sample Date		Client Info		04 May 2023	29 Dec 2022	11 Jul 2022
Machine Age	hrs	Client Info		17542	0	0
Oil Age	hrs	Client Info		152	725	60
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>90	18	76	56
Chromium	ppm	ASTM D5185m	>20	2	6	4
Nickel	ppm	ASTM D5185m	>2	<1	2	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	13	8
Lead	ppm	ASTM D5185m	>40	<1	5	4
Copper	ppm	ASTM D5185m	>330	22	61	40
Tin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	26	8	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	62	60
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	972	910	931
Calcium	ppm	ASTM D5185m	1070	1080	1095	1154
Phosphorus	ppm	ASTM D5185m	1150	1062	1019	979
Zinc	ppm	ASTM D5185m	1270	1319	1249	1210
Sulfur	ppm	ASTM D5185m	2060	3727	3216	3355
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	8	13	9
Sodium	ppm	ASTM D5185m		47	8	5
Potassium	ppm	ASTM D5185m	>20	4	7	4
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	1.7	2.3	2.2
Nitration	Abs/cm	*ASTM D7624	>20	6.7	12.6	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	27.2	25.5
FLUID DEGRA	.DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	21.2	19.4
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	9.4	10.6
( ••••)	0 - 3	.,,				



# **OIL ANALYSIS REPORT**

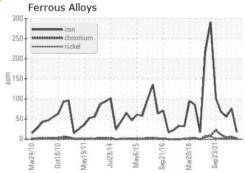


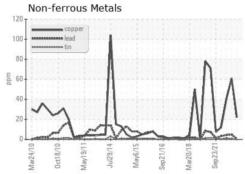


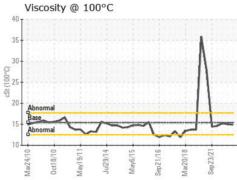
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

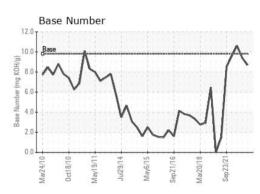
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	15.0	15.2

### **GRAPHS**













Certificate L2367

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

: GFL0072367 : 05841841 : 10465948

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2023 Diagnosed : 09 May 2023 Diagnostician : Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG)

2810 Contentnea Road S Wilson, NC US 27893-8501

Contact: SPENCER LIGGON spencer.liggon@gflenv.com T: (800)207-6618

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)

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