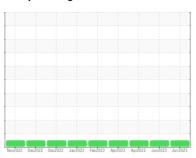


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



732013

Component **Natural Gas Engine** 

PETRO CANADA DURON SHP 15W40 (--- LTR)

## 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.

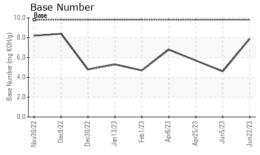
### **Fluid Condition**

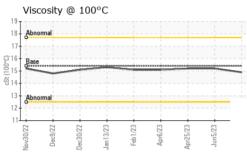
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

New MOREZ Over 2012 Over 2012 1 Sant 2013 Febr 2013 April 2013 April 2013 April 2013 Sant 2013 Sant 2013						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084735	GFL0084575	GFL0078089
Sample Date		Client Info		22 Jun 2023	05 Jun 2023	25 Apr 2023
Machine Age	mls	Client Info		79644	77278	71955
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	6	11	9
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	4	2
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>35	0	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
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	25	10	22
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	50	57	59
Manganese	ppm	ASTM D5185m	0	<1	1	1
Magnesium	ppm	ASTM D5185m	1010	606	645	683
Calcium	ppm	ASTM D5185m	1070	1602	1849	1871
Phosphorus	ppm	ASTM D5185m	1150	775	778	877
Zinc	ppm	ASTM D5185m	1270	979	1099	1093
Sulfur	ppm	ASTM D5185m	2060	2992	3135	2828
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	3	6	4
Sodium	ppm	ASTM D5185m		4	4	5
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.4	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	24.1	19.7
FLUID DEGRAI	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	21.5	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	4.6	5.7



# **OIL ANALYSIS REPORT**

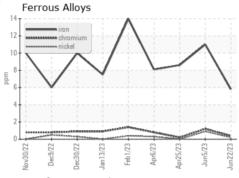


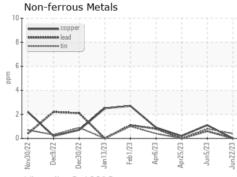


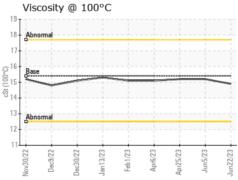
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

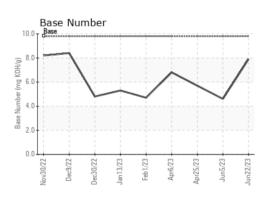
FLUID PROPI	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	15.2	15.2

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10535422 Test Package : FLEET

: GFL0084735 : 05884939

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2023 Diagnosed

: 30 Jun 2023 Diagnostician : Don Baldridge GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: KEITH ROWALD krowald@gflenv.com

T: (303)641-3906

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)

Report Id: GFL856 [WUSCAR] 05884939 (Generated: 06/30/2023 11:39:22) Rev: 1