

# **OIL ANALYSIS REPORT**

Sample Rating Trend

Deck022 Mack023 Mack023 April023 April023 Mayl023 Sant023

NORMAL



732014

Component

Natural Gas Engine

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

## 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.

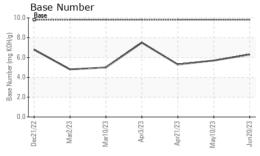
### **Fluid Condition**

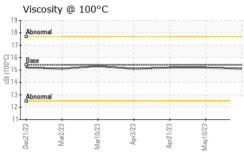
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

) (SIS		Dec2022	Mar2023 Mar2023	Apr2023 Apr2023 May2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084750	GFL0078175	GFL0078099
Sample Date		Client Info		20 Jun 2023	10 May 2023	21 Apr 2023
Machine Age	mls	Client Info		0	48047	46162
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	7	7	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
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	<1	1
Lead	ppm	ASTM D5185m	>30	0	1	0
Copper	ppm	ASTM D5185m	>35	<1	<1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	15	16	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	56	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	601	549	654
Calcium	ppm	ASTM D5185m	1070	1640	1679	1811
Phosphorus	ppm	ASTM D5185m	1150	740	704	818
Zinc	ppm	ASTM D5185m	1270	990	974	1062
Sulfur	ppm	ASTM D5185m	2060	2946	2465	2744
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	4	5	4
Sodium	ppm	ASTM D5185m		5	5	7
Potassium	ppm	ASTM D5185m	>20	<1	1	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.7	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.5	19.4
FLUID DEGRA	OITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	19.3	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.3	5.7	5.3



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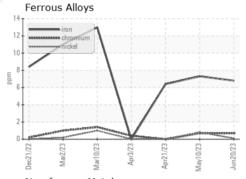


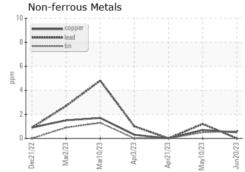


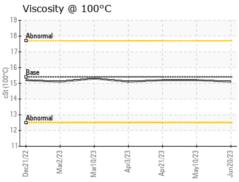
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

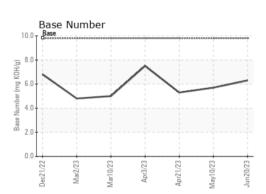
FLUID PROPE	RTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	15.2	15.2

### **GRAPHS**













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084750 : 05884937 : 10535420

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

\* - 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)