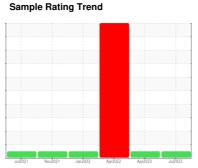


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **3490C** 

Component **Natural Gas Engine** 

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

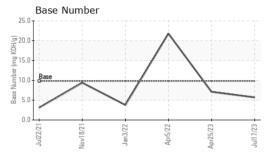
## **Fluid Condition**

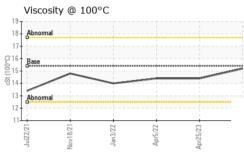
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jul2021	Nov2021 Jan2022	2 Apr2022 Apr2023	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082469	GFL0050771	PCA0061364
Sample Date		Client Info		17 Jul 2023	25 Apr 2023	05 Apr 2022
Machine Age	hrs	Client Info		9495	0	7899
Oil Age	hrs	Client Info		1150	0	469
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method				• 0.20
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	34	15	40
Chromium	ppm	ASTM D5185m	>4	5	1	<u>^</u> 7
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	2	4
Lead	ppm	ASTM D5185m	>30	<1	0	1
Copper	ppm	ASTM D5185m	>35	4	1	4
Tin	ppm	ASTM D5185m	>4	<1	0	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	la la	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	30	83
Barium	ppm		0	0	0	0
Molybdenum		ASTM D5185m	60	65	55	186
-	ppm		0	3	2	4
Manganese	ppm	ASTM D5185m	1010	668	617	553
Magnesium	ppm	ASTM D5185m				1573
Calcium	ppm		1070	2018	1637	
Phosphorus	ppm	ASTM D5185m	1150	891	836	678
Zinc	ppm	ASTM D5185m	1270	1188	1060	880
Sulfur	ppm	ASTM D5185m	2060	3183	2683	2395
CONTAMINAN	IIS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	8	<u>\$ 58</u>
Sodium	ppm	ASTM D5185m		11	4	<u></u> 4 3602 <u></u> 3602 <u></u> 3602 <u> </u>
Potassium	ppm	ASTM D5185m	>20	6	0	<u> </u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	8.3	15.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	20.3	25.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	16.9	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	7.1	21.8



# **OIL ANALYSIS REPORT**

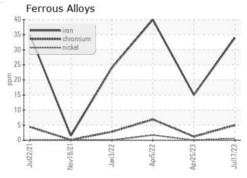


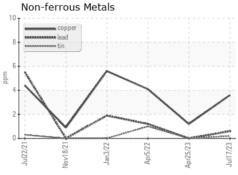


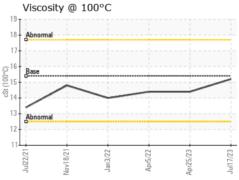
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

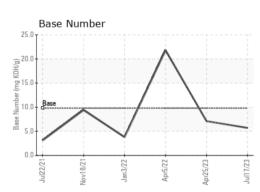
FLUID PROPE	=RIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.2	14.4	14.4

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10562420 Test Package : FLEET

: GFL0082469 : 05901064

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2023 Diagnosed : 19 Jul 2023

Diagnostician : Don Baldridge

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC US 28422

Contact: TOMMY DEVINE tommy.devine@gflenv.com

F: (910)253-4179

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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