

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



749005-310061

Component

**Diesel Engine** 

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

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: OIL SAMPLE )

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

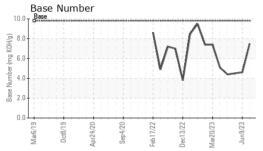
## **Fluid Condition**

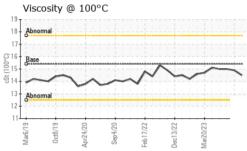
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0092034 02 Dec 2023	GFL0084685 09 Jun 2023	GFL0084576 05 Jun 2023
Machine Age Oil Age	mls mls	Client Info		625869 625869	127982 0	127668 0
Oil Changed	11113	Client Info		Not Changd NORMAL	Changed	Not Changd
Sample Status						-
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	7	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		1	2	4
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	13	9
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m	60	52	50	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	523	585	576
Calcium	ppm	ASTM D5185m	1070	1385	1697	1703
Phosphorus	ppm	ASTM D5185m	1150	689	745 1029	738 1030
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	857 2529	2983	2957
CONTAMINAN						
Silicon		method	limit/base	current	history1 4	history2 4
Sodium	ppm	ASTM D5185m ASTM D5185m	>25	11 76	7	7
Potassium	ppm	ASTM D5185m	>20	21	3	2
INFRA-RED	ррт	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		8.7	10.0	10.5
Sulfation	Abs/.1mm	*ASTM D7024		19.3	22.7	22.7
FLUID DEGRAI	AOLTAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	19.7	19.9
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	9.8	7.5	4.6	4.5
200 · 10			,			



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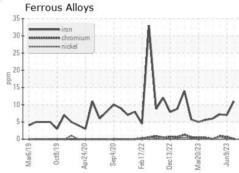


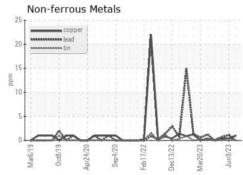


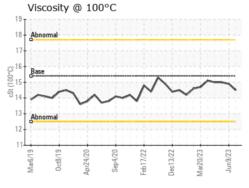
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

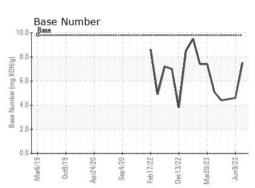
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.9	15.0

## **GRAPHS**













Certificate L2367

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

: GFL0092034 : 06025570 : 10770070 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 05 Dec 2023 Diagnosed : 07 Dec 2023 Diagnostician : Sean Felton

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

\* - 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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