

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

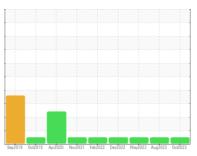




GFL865 424050-402438

Component **Diesel 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

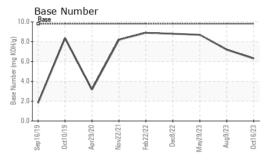
## **Fluid Condition**

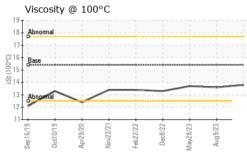
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sebznia Oct		Feb2022 Dec2022 May2023 Aug20		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093296	GFL0083456	GFL0083461
Sample Date		Client Info		16 Oct 2023	09 Aug 2023	29 May 2023
Machine Age	mls	Client Info		493429	482691	219970
Oil Age	mls	Client Info		493429	248539	219970
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	10	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	7
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	48	58	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	722	970	637
Calcium	ppm	ASTM D5185m	1070	1180	1155	1623
Phosphorus	ppm	ASTM D5185m	1150	756	1020	1066
Zinc	ppm	ASTM D5185m	1270	1012	1262	1278
Sulfur	ppm	ASTM D5185m	2060	2350	3512	3553
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	6
Sodium	ppm	ASTM D5185m		6	4	1
Potassium	ppm	ASTM D5185m	>20	4	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.8	18.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Ovidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.4	13.2
Oxidation	AU3/. 1111111	//OTIVI D/TIT	/		10.7	10.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	7.2	8.7



# **OIL ANALYSIS REPORT**

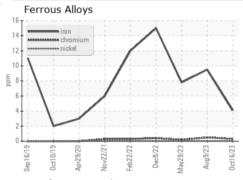


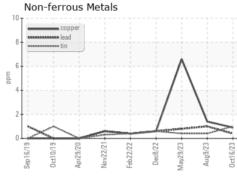


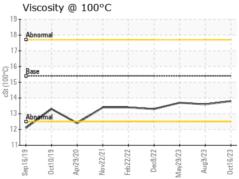
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

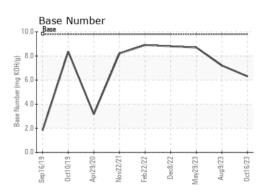
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.6	13.7

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10708691 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0093296 : 05986029

Received : 23 Oct 2023 Diagnosed : 23 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road Houston, TX

US 77050 Contact: Jose Gonzalez

jgonzalez2@gflenv.com T:

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: GFL865 [WUSCAR] 05986029 (Generated: 10/24/2023 09:04:07) Rev: 1

F: