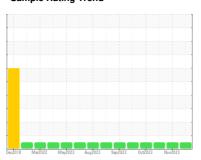


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **428057-402383** 

Component

**Diesel Engine** 

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

# 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

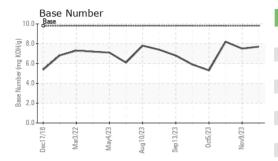
### **Fluid Condition**

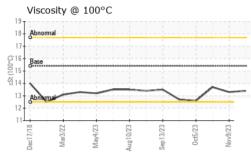
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Dec2018 Ma	ar2022 May2023 Aug	2023 Sep2023 Oct2023	lov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088216	GFL0088211	GFL0088209
Sample Date		Client Info		30 Nov 2023	09 Nov 2023	24 Oct 2023
Machine Age	mls	Client Info		0	443638	439487
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	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 METALS	}	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	8	5	2
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m		3	2	2
	ppm	ASTM D5185m	>45	2	<1	2
	ppm			<1	0	<1
	ppm	ASTM D5185m	>4	<1	0	<1
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	4
Barium	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	60	60	63	54
	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m	1010	966	1127	869
	ppm	ASTM D5185m	1070	1019	1225	940
	ppm	ASTM D5185m	1150	903	1232	1020
	ppm	ASTM D5185m ASTM D5185m	1270 2060	1247 2950	1556 3632	1144 2697
	ppm					
CONTAMINANT		method ASTM D5185m	limit/base	current	history1	history2
	ppm		>30	8	6	5 5
	ppm ppm	ASTM D5185m ASTM D5185m	>20	4 5	3	4
INFRA-RED	Ph	method	limit/base	current	history1	history2
	0/					
	% Abs/cm	*ASTM D7844	>3	0.2	0.2	0.1
	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.1 20.7	8.7 20.3	7.0 19.1
FLUID DEGRAD			limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	17.5	17.0	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.5	8.2



# **OIL ANALYSIS REPORT**

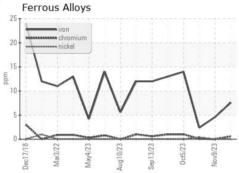


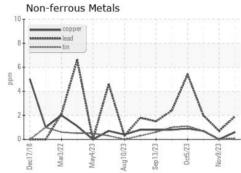


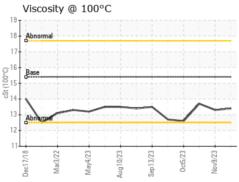
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

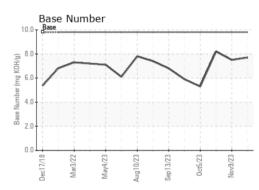
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	13.7

## **GRAPHS**













Certificate L2367

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

: GFL0088216 : 06039997 : 10795226 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Dec 2023 : 20 Dec 2023 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 820 - Joplin Hauling

3700 West 7th Street Joplin, MO US 64801

Contact: James Jarrett jjarrett@gflenv.com

T: (417)310-2802

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)