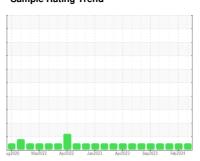


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **829031-1082** 

Component

**Diesel Engine** 

PETRO CANADA DURON SHP E6 10W40 (--- LTR)

## 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.

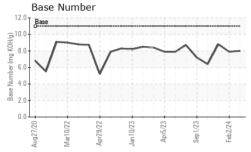
### **Fluid Condition**

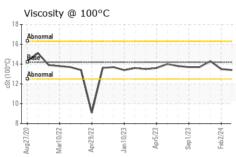
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( LIK)  uglo20 Mwło22 Aprio23 Janio23 Aprio23 Snpło23 Febrio24							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0103872	GFL0103907	GFL0097372	
Sample Date		Client Info		08 Feb 2024	02 Feb 2024	20 Nov 2023	
Machine Age	hrs	Client Info		13291	14210	98624	
Oil Age	hrs	Client Info		0	475	98624	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
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	>110	6	3	3	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	2	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	0	
Aluminum	ppm	ASTM D5185m	>25	1	2	2	
Lead	ppm	ASTM D5185m	>45	<1	2	<1	
Copper	ppm	ASTM D5185m	>85	1	1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	1	5	4	7	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	49	60	59	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	930	992	887	862	
Calcium	ppm	ASTM D5185m	1350	1100	1043	1046	
Phosphorus	ppm	ASTM D5185m	810	1066	1013	863	
Zinc	ppm	ASTM D5185m	930	1280	1232	1152	
Sulfur	ppm	ASTM D5185m	2500	3152	3032	3392	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	4	4	4	
Sodium	ppm	ASTM D5185m		3	4	2	
Potassium	ppm	ASTM D5185m	>20	<1	5	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624		7.6	7.3	5.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.0	18.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.9	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.9	8.8	
= 300 · (214)				0.0		0.0	



# **OIL ANALYSIS REPORT**

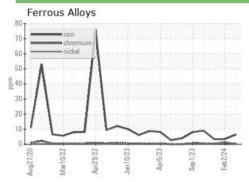


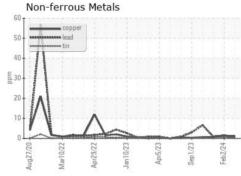


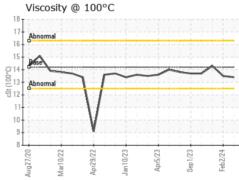
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

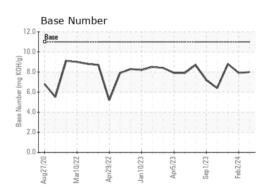
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.2	13.4	13.5	14.3

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

: GFL0103872 Lab Number : 06089333

Unique Number : 10876778 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested** : 15 Feb 2024

Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA US 23112

Contact: Corbin Umphlet cumphlet@gflenv.com

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: GFL654S [WUSCAR] 06089333 (Generated: 02/15/2024 16:56:09) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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