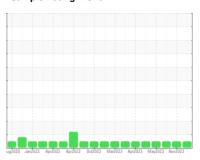


# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



NORMAL



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

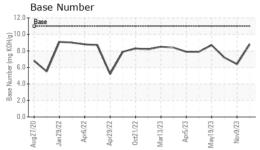
### **Fluid Condition**

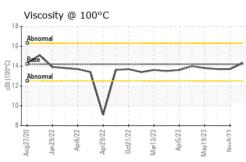
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)		ыg2020 Jan20	22 Apr2022 Apr2022 Oct	z2022 Mar2023 Apr2023 May2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097372	GFL0097375	GFL0089511
Sample Date		Client Info		20 Nov 2023	09 Nov 2023	01 Sep 2023
Machine Age	hrs	Client Info		98624	98624	12177
Oil Age	hrs	Client Info		98624	98624	651
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	3	9	8
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	<1
Lead	ppm	ASTM D5185m	>45	<1	7	3
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	7	6	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	49	56	61	65
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	930	862	984	1008
Calcium	ppm	ASTM D5185m	1350	1046	1071	1123
Phosphorus	ppm	ASTM D5185m	810	863	1050	1044
Zinc	ppm	ASTM D5185m	930	1152	1322	1301
Sulfur	ppm	ASTM D5185m	2500	3392	2784	3457
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	7	6
Sodium	ppm	ASTM D5185m		2	4	6
Potassium	ppm	ASTM D5185m	>20	2	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.5	10.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	22.3	20.3
FLUID DEGRAI	NOITAC		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	18.9	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.8	6.4	7.2



## **OIL ANALYSIS REPORT**

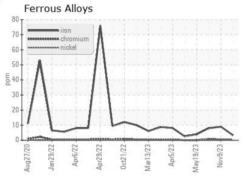


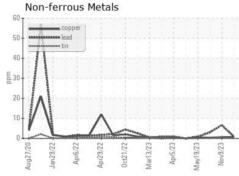


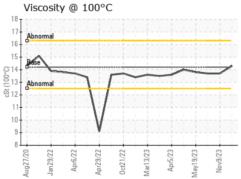
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

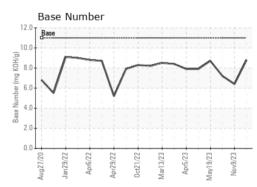
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.2	14.3	13.7	13.7

### **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0097372 : 06017234 : 10756378

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Nov 2023 Diagnosed : 28 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA US 23112

Contact: Corbin Umphlet

cumphlet@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: GFL654S [WUSCAR] 06017234 (Generated: 11/29/2023 21:59:58) Rev: 1

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