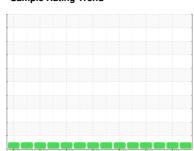


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



# (EIB490) Machine Id 2680

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (8 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

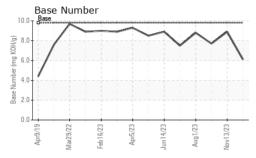
### **Fluid Condition**

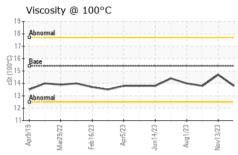
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Apr2019 M	ar2022 Feb2023 Apr	2023 Jun2023 Aug2023	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111543	GFL0083174	GFL0083140	
Sample Date		Client Info		08 Mar 2024	13 Nov 2023	16 Oct 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<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	>165	15	18	8	
Chromium	ppm	ASTM D5185m	>5	<1	2	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	2	
Lead	ppm	ASTM D5185m	>150	5	<1	<1	
Copper	ppm	ASTM D5185m	>90	2	<1	2	
Tin	ppm	ASTM D5185m	>5	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	10	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	63	60	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	961	1030	796	
Calcium	ppm	ASTM D5185m	1070	1240	1163	1236	
Phosphorus	ppm	ASTM D5185m	1150	1041	1075	939	
Zinc	ppm	ASTM D5185m	1270	1224	1341	1147	
Sulfur	ppm	ASTM D5185m	2060	3206	3241	3149	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	6	5	5	
Sodium	ppm	ASTM D5185m		6	3	3	
Potassium	ppm	ASTM D5185m	>20	<1	<1	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.6	1	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	11.5	6.8	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	20.0	19.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	14.3	15.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	8.9	7.7	



## **OIL ANALYSIS REPORT**

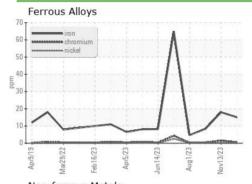


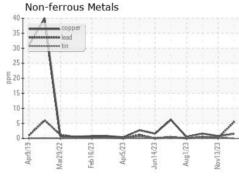


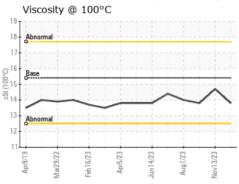
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

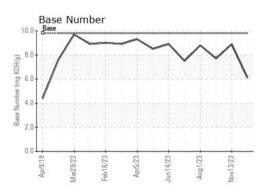
FLUID PROP	PERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.7	13.8

### **GRAPHS**













Certificate L2367

Sample No. **Lab Number** : 06115646 Unique Number : 10924479

Test Package : FLEET

: GFL0111543

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

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

: 12 Mar 2024 **Tested** : 13 Mar 2024 Diagnosed : 13 Mar 2024 - Wes Davis

GFL Environmental - 074 - Douglas - Transwaste

1219 Landfill Road Douglas, GA US 31533

T: (912)384-6001

Contact: CURTIS JACOBS

CURTIS.JACOBS@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)