

# **OIL ANALYSIS REPORT**

(EIB678) 10808

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (11 GAL)

# **Sample Rating Trend**



# DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

# Contamination

There is no indication of any contamination in the oil.

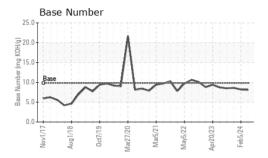
# **Fluid Condition**

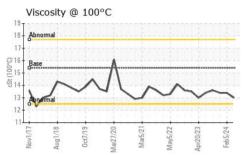
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ual)		rv2017 Aug2	018 Oct2019 Mar202	0 Mar2021 May2022 Apr202	Feb2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112354	GFL0107167	GFL0109898
Sample Date		Client Info		29 Feb 2024	05 Feb 2024	21 Jan 2024
Machine Age	hrs	Client Info		942	802	11594
Oil Age	hrs	Client Info		600	300	450
Oil Changed		Client Info		Changed	Not Changd	Not Changd
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	>75	10	6	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	5	3	1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	8	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	55
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	838	871	857
Calcium	ppm	ASTM D5185m	1070	972	1006	1028
Phosphorus	ppm	ASTM D5185m	1150	996	981	842
Zinc	ppm	ASTM D5185m	1270	1149	1196	1077
Sulfur	ppm	ASTM D5185m	2060	3024	2976	2762
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	3
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	2	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.2	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.5	16.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	12.9	12.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.2	8.6



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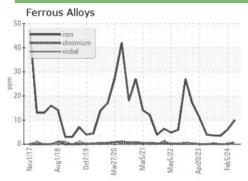


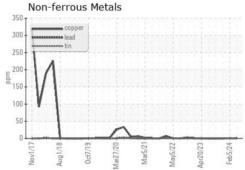


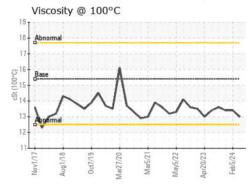
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

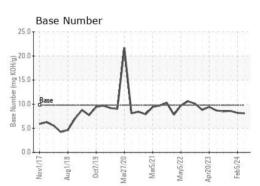
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.4	13.4

# **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06105732 Unique Number : 10903962 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112354 Received : 01 Mar 2024

**Tested** : 01 Mar 2024 Diagnosed : 01 Mar 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER

joshuatinker@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)

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