

# **OIL ANALYSIS REPORT**

(EIB814)
Machine Id
11308

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (32 QTS)

# a-2019 Nov2020 May2021 Ou-2022 May2023 Oct2023 Feb/2024

Sample Rating Trend



# 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

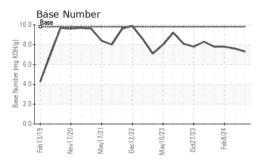
# **Fluid Condition**

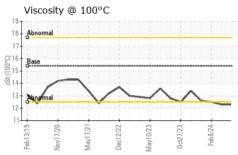
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		3b2019 Nov.	2020 May2021 Dec2	022 May2023 0ct2023 Fr	sb2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068830 22 Mar 2024	GFL0068845 01 Mar 2024	GFL0068877 08 Feb 2024
Sample Date Machine Age	nrs	Client Info		4598	4532	4416
	nrs	Client Info		540	4532	358
Oil Age Oil Changed	115	Client Info		Changed	Not Changd	Not Changd
Sample Status		Ciletit itilo		NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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
	opm	ASTM D5185m	>100	16	15	10
Chromium	opm	ASTM D5185m	>20	1	<1	<1
Nickel	opm	ASTM D5185m	>4	<1	0	0
Titanium	opm	ASTM D5185m		<1	0	0
Silver	opm	ASTM D5185m	>3	0	0	0
Aluminum	opm	ASTM D5185m	>20	10	9	7
Lead	opm	ASTM D5185m	>40	<1	0	0
Copper	opm	ASTM D5185m	>330	1	<1	0
Tin p	opm	ASTM D5185m	>15	1	0	0
Vanadium	opm	ASTM D5185m		<1	<1	0
Cadmium	opm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	3	2	4
Barium	opm	ASTM D5185m	0	<1	0	0
Molybdenum p	opm	ASTM D5185m	60	55	54	52
Manganese	opm	ASTM D5185m	0	<1	<1	<1
Magnesium p	opm	ASTM D5185m	1010	837	882	861
Calcium	opm	ASTM D5185m	1070	977	975	931
Phosphorus p	opm	ASTM D5185m	1150	1006	950	964
Zinc	opm	ASTM D5185m	1270	1109	1104	1135
Sulfur	opm	ASTM D5185m	2060	2765	2835	2698
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm		>25	6	3	4
Sodium	opm	ASTM D5185m		2	5	4
Potassium	opm	ASTM D5185m	>20	12	10	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration /	Abs/cm	*ASTM D7624	>20	7.9	7.8	6.9
	Abs/.1mm	*ASTM D7415	>30	18.0	18.1	17.8
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	15.2	14.8	14.1
	ng KOH/g	ASTM D2896	9.8	7.3	7.6	7.8
2000 Humbon (DI4)	9 1101119		0.0	1.0	7.0	7.0



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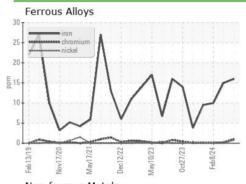


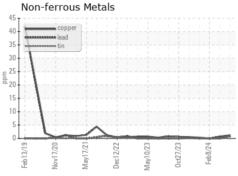


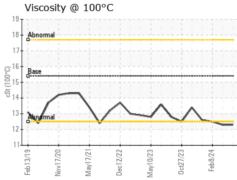
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

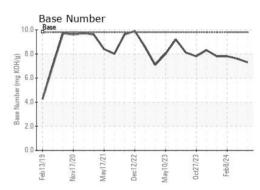
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.3	12.5

# **GRAPHS**













Certificate L2367

Laboratory Sample No.

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

Lab Number : 06130125 Unique Number : 10949590 Test Package : FLEET

: GFL0068830

Received **Tested** Diagnosed

: 27 Mar 2024 : 27 Mar 2024 : 27 Mar 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093 Contact: Mike Taft

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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F: