

OIL ANALYSIS REPORT

(YA133498) 2649C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (12 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

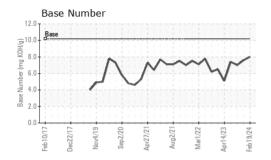
,		b2017 Dec20	17 Nov2019 Sep2020	Apr2021 Aug2021 Mar2022 Apr	2023 Feb20	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088508	GFL0088540	GFL0079606
Sample Date		Client Info		19 Feb 2024	13 Sep 2023	03 Aug 2023
Machine Age	hrs	Client Info		7587	7587	7587
Oil Age	hrs	Client Info		181	257	499
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	6	7
Chromium	ppm	ASTM D5185m	>4	1	1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	1
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>35	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
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	50	24	24	18
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	56	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	591	660	613
Calcium	ppm	ASTM D5185m	1510	1474	1796	1706
Phosphorus	ppm	ASTM D5185m	780	819	845	794
Zinc	ppm	ASTM D5185m	870	946	1039	1044
Sulfur	ppm	ASTM D5185m	2040	2354	3069	2987
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	7	4
Sodium	ppm	ASTM D5185m		74	31	19
Potassium	ppm	ASTM D5185m	>20	25	7	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.7	21.0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	17.2	17.6
			-		-	-

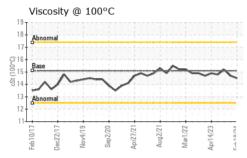
8.0

Base Number (BN) mg KOH/g ASTM D2896 10.2



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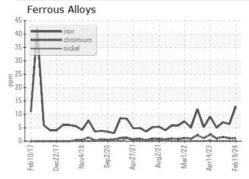


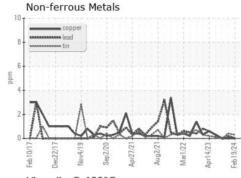


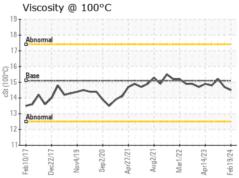
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

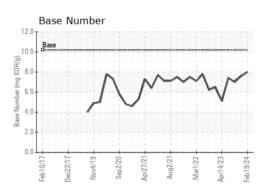
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.7	15.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06094885

: GFL0088508 Unique Number: 10887738

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Feb 2024 **Tested** : 21 Feb 2024

Diagnosed : 21 Feb 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact:

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

bill.waring@wearcheck.com T: (919)596-1363 F: (919)598-1852

* - 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)