

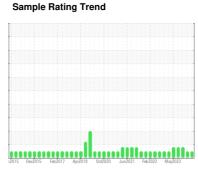
OIL ANALYSIS REPORT



(**YA113970**) 3439C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (29 QTS)





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.

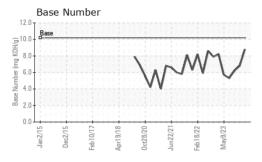
SAMPLE INFOR	AOITAMS	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098149	GFL0098108	GFL0088538
Sample Date		Client Info		07 Feb 2024	01 Nov 2023	13 Sep 2023
Machine Age	hrs	Client Info		15105	15105	15105
Oil Age	hrs	Client Info		568	297	508
Oil Changed	0	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA [*]	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	15	21
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	<1
Lead	ppm	ASTM D5185m	>30	0	<1	1
Copper	ppm	ASTM D5185m	>35	<1	21	<u> </u>
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	48	15	11
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	45	55	55
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	541	592	634
Calcium	ppm	ASTM D5185m	1510	1351	1598	1743
Phosphorus	ppm	ASTM D5185m	780	763	738	775
Zinc	ppm	ASTM D5185m	870	885	989	1004
Sulfur	ppm	ASTM D5185m	2040	2304	2928	2728
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	10	8	9
Sodium	ppm	ASTM D5185m		2	2	7
Potassium	ppm	ASTM D5185m	>20	2	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.0	9.3	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.5	20.0
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	17.1	17.8
Doos Number (DNI)		ACTAI DOOOC	100	0.0	6.0	0.0

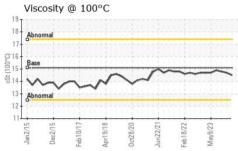
8.8

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



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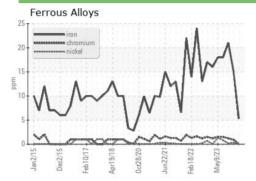


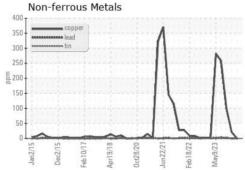


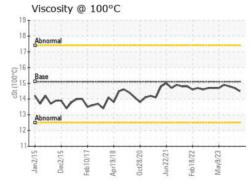
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

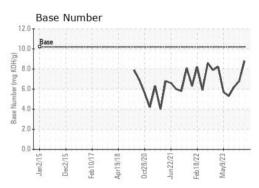
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.7	14.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Unique Number : 10869823

Test Package : FLEET

: GFL0098149 Lab Number : 06082378

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

: 08 Feb 2024 Diagnosed : 08 Feb 2024 - Wes Davis

: 07 Feb 2024

148 Stone Park Court Durham, NC

US 27703 Contact:

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)

GFL Environmental - 017 - Durham