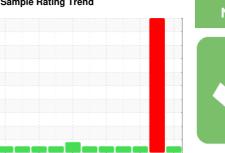


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **9171** Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

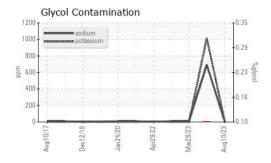
Fluid Condition

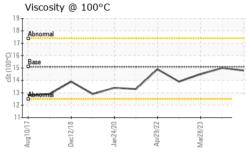
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

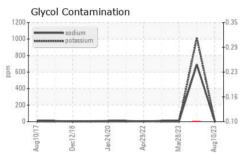
GEO LD 15W40 (-	GAL)	Aug2017	Dec2018 Jan2020	Apr2022 Mar2023	Aug 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083451	GFL0083500	GFL0074181
Sample Date		Client Info		10 Aug 2023	01 Jun 2023	28 Mar 2023
Machine Age	hrs	Client Info		16028	15576	15001
Oil Age	hrs	Client Info		16028	15576	15001
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	△ 67	23
Chromium	ppm	ASTM D5185m	>4	<1	<u>^</u> 6	2
Nickel	ppm	ASTM D5185m	>2	0	<u>4</u>	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	4 3	9
Lead	ppm	ASTM D5185m	>30	0	8	<1
Copper	ppm	ASTM D5185m	>35	27	<u></u> 158	6
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Beryllium	ppm	ASTM D5185m				
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	42	2	20
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	259	49
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	560	611	544	511
Calcium	ppm	ASTM D5185m	1510	1697	1658	1510
Phosphorus	ppm	ASTM D5185m	780	799	615	741
Zinc	ppm	ASTM D5185m	870	968	932	946
Sulfur	ppm	ASTM D5185m	2040	3000	2985	2528
Lithium	ppm	ASTM D5185m				
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	21	5
Sodium	ppm	ASTM D5185m		17	△ 690	8
Potassium	ppm	ASTM D5185m	>20	19	<u> </u>	1
Glycol	%	*ASTM D2982			0.10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	12.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	24.6	19.5
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	19.7	16.3
Base Number (BN)	mg KOH/g			8.4	6.3	7.5
(=: •)	39					



OIL ANALYSIS REPORT



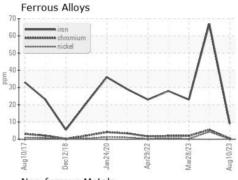


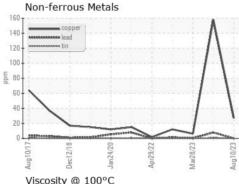


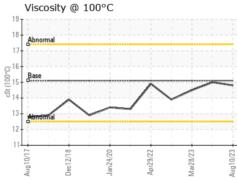
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

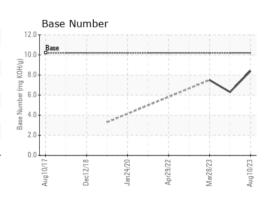
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	15.0	14.5	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0083451 : 05929198

: 10609145

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed : 22 Aug 2023

Diagnostician : Jonathan Hester GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@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)

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F: