

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 934022 Component Natural Gas I

Natural Gas Engine

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

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

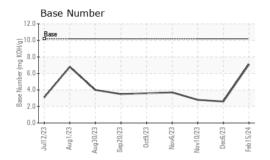
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

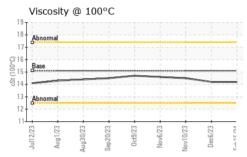
GEO LD 15W40 (-	GAL)	Jul2023 Aug	2023 Aug2023 Sep2023	Oct2023 Nov2023 Nov2023 Dec20	23 Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108034	GFL0099912	GFL0095176
Sample Date		Client Info		15 Feb 2024	06 Dec 2023	10 Nov 2023
Machine Age	hrs	Client Info		1749	1417	1305
Oil Age	hrs	Client Info		1305	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	<u> </u>	▲ 73
Chromium	ppm	ASTM D5185m	>5	0	<u>^</u> 9	4
Nickel	ppm	ASTM D5185m	>4	0	5	3
Titanium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	13	88
Lead	ppm	ASTM D5185m	>40	0	11	5
Copper	ppm	ASTM D5185m	>150	<1	2	23
Tin	ppm	ASTM D5185m	>4	0	<1	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	66	5	4
Barium	ppm	ASTM D5185m	5	0	0	10
Molybdenum	ppm	ASTM D5185m	50	104	75	67
Manganese	ppm	ASTM D5185m	0	<1	3	15
Magnesium	ppm	ASTM D5185m	560	715	627	770
Calcium	ppm	ASTM D5185m	1510	1357	1808	1279
Phosphorus	ppm	ASTM D5185m	780	776	782	816
Zinc	ppm	ASTM D5185m	870	909	1009	988
Sulfur	ppm	ASTM D5185m	2040	3456	2487	2749
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	<u>▲</u> 55	△ 31
Sodium	ppm	ASTM D5185m		<1	14	2
Potassium	ppm	ASTM D5185m	>20	3	3	223
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	5.5	13.1	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	28.4	28.3
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	25.0	25.5
Dage Number (DNI)				7.1		0.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 7.1



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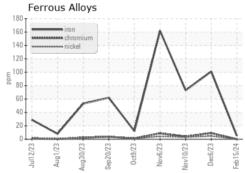


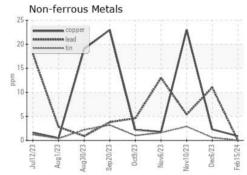


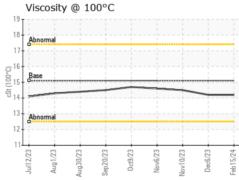
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

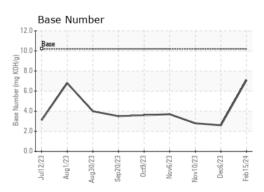
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.2	14.5

GRAPHS













Laboratory Sample No.

: GFL0108034 Lab Number : 06107939 Unique Number : 10911436

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Mar 2024 **Tested**

: 05 Mar 2024 Diagnosed : 05 Mar 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

Test Package : FLEET Certificate L2367 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)

Report Id: GFL836 [WUSCAR] 06107939 (Generated: 03/05/2024 15:31:13) Rev: 1

Submitted By: JEREMY BROWN

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