

OIL ANALYSIS REPORT

Sample Rating Trend

Doc/2021 May/2022 Aug/2022 Ap/2023 Jan/2024 Feb/2024

NORMAL



Machine Id **944034-260289**

Component

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

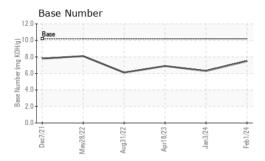
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

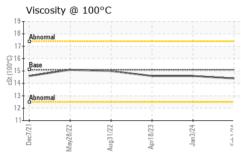
GAL)		Dec2021	May2022 Aug202	2 Apr2023 Jan2024	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103925	GFL0103949	GFL0074162
Sample Date		Client Info		01 Feb 2024	03 Jan 2024	18 Apr 2023
Machine Age	hrs	Client Info		15918	15728	14703
Oil Age	hrs	Client Info		0	15728	14703
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
ron	ppm	ASTM D5185m	>50	6	17	18
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	5
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>35	<1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	30	16	23
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	49	53	49
Manganese	ppm	ASTM D5185m	0	<1	0	3
Magnesium	ppm	ASTM D5185m	560	552	599	790
Calcium	ppm	ASTM D5185m	1510	1499	1557	1278
Phosphorus	ppm	ASTM D5185m	780	784	759	730
Zinc	ppm	ASTM D5185m	870	953	975	912
Sulfur	ppm	ASTM D5185m	2040	2487	2646	2784
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	27
Sodium	ppm	ASTM D5185m		5	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.6	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.8	18.5
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.9	17.5
Daga Number (DNI)	m = 1/011/	ACTM DOCCO	100	7 5	6.0	6.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 7.5



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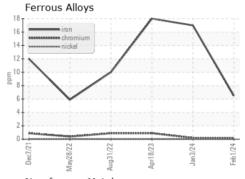


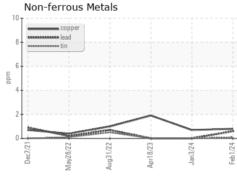


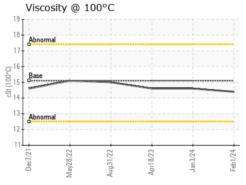
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

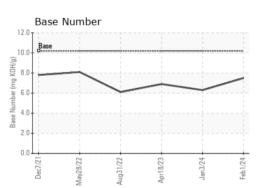
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.6	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10863171 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103925 Recieved : 06081080

: 06 Feb 2024 Diagnosed : 06 Feb 2024 Diagnostician : Wes Davis

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050

Contact: Saul Castillo saul.castillo@gflenv.com T:

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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