

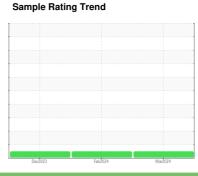
OIL ANALYSIS REPORT

(TMV9215) Machine Id 934065

Component

1 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

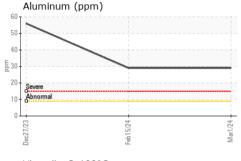
(GAL)		Dec	2023	Feb 2024 Mar 20.	24	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114480	GFL0103937	GFL0100547
Sample Date		Client Info		01 Mar 2024	15 Feb 2024	27 Dec 2023
Machine Age	hrs	Client Info		1157	1005	585
Oil Age	hrs	Client Info		0	1005	585
Oil Changed		Client Info		Changed	N/A	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
Iron	ppm	ASTM D5185m	>50	18	17	47
Chromium	ppm	ASTM D5185m	>4	2	1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	29	29	56
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>35	3	3	17
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	10	11
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	53	52	57
Manganese	ppm	ASTM D5185m	0	2	2	18
Magnesium	ppm	ASTM D5185m	560	584	566	790
Calcium	ppm	ASTM D5185m	1510	1490	1523	1201
Phosphorus	ppm	ASTM D5185m	780	705	696	711
Zinc	ppm	ASTM D5185m	870	968	918	922
Sulfur	ppm	ASTM D5185m	2040	2464	2295	2349
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	8	38
Sodium	ppm	ASTM D5185m		8	6	6
Potassium	ppm	ASTM D5185m	>20	97	93	190
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.4	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.2	23.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414		current 18.4	history1 17.4	history2 21.7

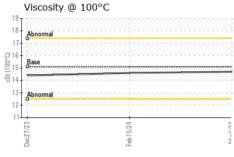
4.8

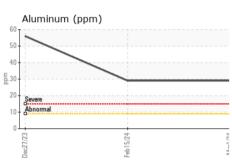
Base Number (BN) mg KOH/g ASTM D2896 10.2

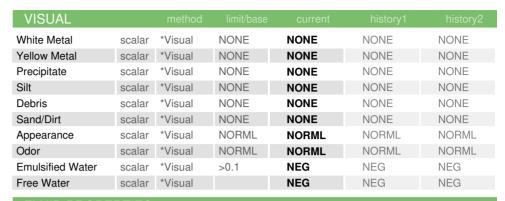


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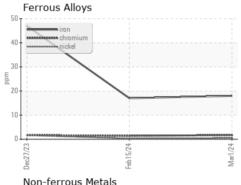


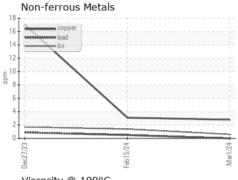


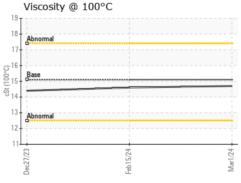


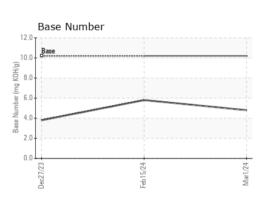
FLUID PROPERTIES		method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.6	14.4

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0114480 Lab Number : 06113379 Unique Number: 10916876 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Mar 2024 : 11 Mar 2024

Tested Diagnosed

: 11 Mar 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: TECHNICIAN ACCOUNT

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

wcgfldemo@gmail.com T:

* - 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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