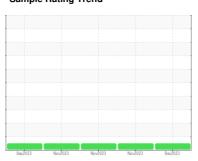


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **834015**

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

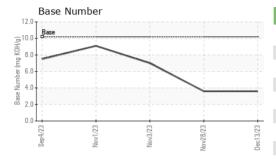
(GAL)		Sep.2023	Nov2023	Nov2023 Nov2023	Dec2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102411	GFL0102540	GFL0098599
Sample Date		Client Info		13 Dec 2023	28 Nov 2023	03 Nov 2023
Machine Age	hrs	Client Info		582	482	354
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA ⁻	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	54	51	43
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	5	3	4
Lead	ppm	ASTM D5185m	>30	1	<1	1
Copper	ppm	ASTM D5185m	>35	18	20	15
Tin	ppm	ASTM D5185m	>4	2	2	2
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	5	7	16
Barium	ppm	ASTM D5185m	5	4	9	0
Molybdenum	ppm	ASTM D5185m	50	54	54	50
Manganese	ppm	ASTM D5185m	0	10	10	9
Magnesium	ppm	ASTM D5185m	560	805	716	738
Calcium	ppm	ASTM D5185m	1510	1208	1205	1177
Phosphorus	ppm	ASTM D5185m	780	679	636	696
Zinc	ppm	ASTM D5185m	870	915	868	912
Sulfur	ppm	ASTM D5185m	2040	2294	2267	2245
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	32	34	29
Sodium	ppm	ASTM D5185m		4	0	4
Potassium	ppm	ASTM D5185m	>20	4	6	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.4	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	22.3	23.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	20.7	22.7
B N (-1)		AOTH DOGG	10.0			= 0

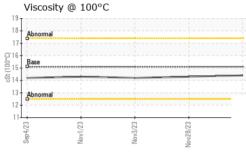
3.6

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



OIL ANALYSIS REPORT

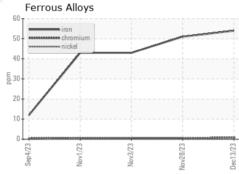


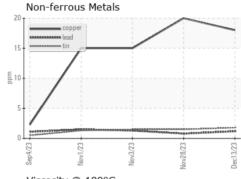


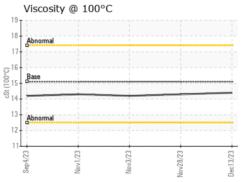
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

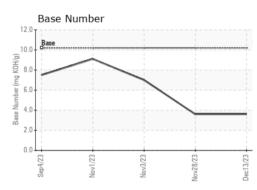
	ERITES	memoa			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.3	14.2

GRAPHS













Laboratory Sample No. Lab Number

Unique Number : 10796459 Test Package : FLEET

: GFL0102411 : 06041230

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023

Diagnosed : 22 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

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)