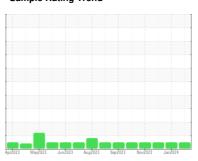


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 933023

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

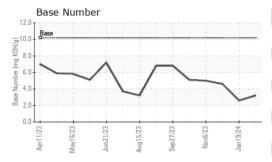
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

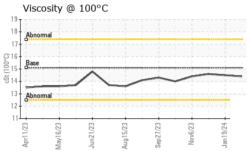
(GAL)		Apr2023 M	ay2023 Jun2023 Aug	2023 Sep2023 Nov2023	Jan 2024	
SAMPLE INFORT	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103333	GFL0103329	GFL0103359
Sample Date		Client Info		20 Jan 2024	19 Jan 2024	21 Dec 2023
Machine Age	hrs	Client Info		2142	2344	2125
Oil Age	hrs	Client Info		1200	0	2125
Oil Changed		Client Info		Changed	Not Changd	Not Changd
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	14	10
Chromium	ppm	ASTM D5185m	>4	1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	4	3
Lead	ppm	ASTM D5185m	>30	7	3	1
Copper	ppm	ASTM D5185m	>35	1	5	4
Tin	ppm	ASTM D5185m	>4	2	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	9	10
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	54	59	49
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	624	627	576
Calcium	ppm	ASTM D5185m	1510	1842	1695	1582
Phosphorus	ppm	ASTM D5185m	780	757	806	716
Zinc	ppm	ASTM D5185m	870	984	1057	981
Sulfur	ppm	ASTM D5185m	2040	2171	2681	2470
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	18	15
Sodium	ppm	ASTM D5185m		10	4	3
Potassium	ppm	ASTM D5185m	>20	<1	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.8	11.1	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	23.5	23.3
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	19.3	19.4
5 11 1 (511)	1/011/	4.0TI 4.D.0000	400		0.0	

Base Number (BN) mg KOH/g ASTM D2896 10.2 3.2



OIL ANALYSIS REPORT

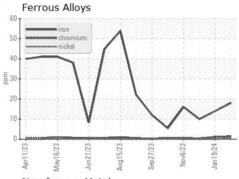


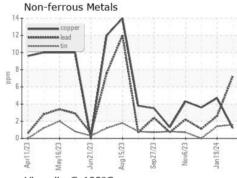


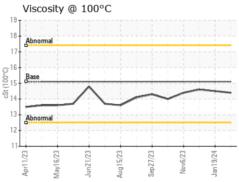
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

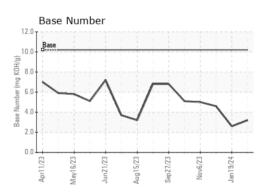
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.5	14.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10846621 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103333 : 06069944

Recieved

: 24 Jan 2024 Diagnosed : 25 Jan 2024 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)