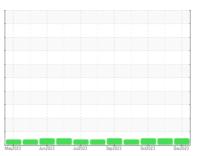


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **433005**

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

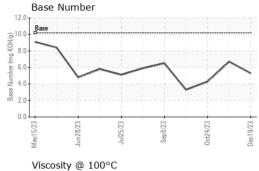
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

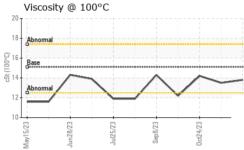
GAL)		May2023	Jun2023 Jul2023	Sep2023 Oct2023	Dec2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103357	GFL0099902	GFL0095097
Sample Date		Client Info		19 Dec 2023	27 Nov 2023	24 Oct 2023
Machine Age	hrs	Client Info		1809	1618	1469
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	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
ron	ppm	ASTM D5185m	>50	8	9	9
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Гitanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	2
Lead	ppm	ASTM D5185m	>30	1	1	2
Copper	ppm	ASTM D5185m	>35	3	4	2
Γin	ppm	ASTM D5185m	>4	1	<1	<1
√anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	20	33	13
Barium	ppm	ASTM D5185m	5	<1	<1	0
Molybdenum	ppm	ASTM D5185m	50	53	47	52
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	599	591	490
Calcium	ppm	ASTM D5185m	1510	1491	1505	1567
Phosphorus	ppm	ASTM D5185m	780	804	764	627
Zinc	ppm	ASTM D5185m	870	988	908	915
Sulfur	ppm	ASTM D5185m	2040	2614	2231	2120
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	17	21	5
Sodium	ppm	ASTM D5185m		3	4	9
Potassium	ppm	ASTM D5185m	>20	2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Vitration	Abs/cm	*ASTM D7624	>20	10.0	8.8	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.5	22.0
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.9	18.4
D 11 (D)	1/01::	A OTHER DOCUMENT	100			4.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 5.3



OIL ANALYSIS REPORT

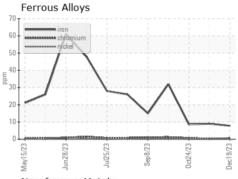


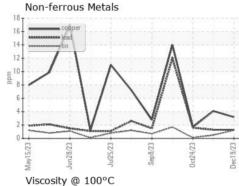


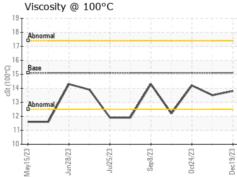
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

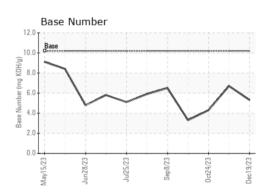
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.5	14.2	

GRAPHS













Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0103357 : 06041819 : 10802427

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 21 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

* - 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)