

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **731118**

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.

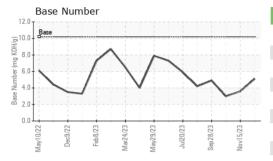
Fluid Condition

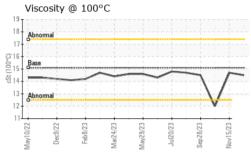
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)		Nay2022 Deca	022 Feb2023 Mar2023	May2023 Jul2023 Sep2023	Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103363	GFL0099953	GFL0095101
Sample Date		Client Info		20 Dec 2023	15 Nov 2023	26 Oct 2023
Machine Age	hrs	Client Info		6012	5826	5714
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
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	9	12	29
Chromium	ppm	ASTM D5185m	>4	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	6
Lead	ppm	ASTM D5185m	>30	4	12	11
Copper	ppm	ASTM D5185m		1	<1	15
Tin	ppm	ASTM D5185m	>4	<1	1	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	17	12	7
Barium	ppm	ASTM D5185m	5	0	0	4
Molybdenum	ppm	ASTM D5185m	50	52	57	51
Manganese	ppm	ASTM D5185m	0	<1	1	4
Magnesium	ppm	ASTM D5185m	560	545	624	780
Calcium	ppm	ASTM D5185m	1510	1493	1698	1147
Phosphorus	ppm	ASTM D5185m	780	759	762	722
Zinc	ppm	ASTM D5185m	870	984	1038	865
Sulfur	ppm	ASTM D5185m	2040	2438	2453	2021
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	79
Sodium	ppm	ASTM D5185m		2	8	8
Potassium	ppm	ASTM D5185m	>20	0	0	8
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		10.7	11.8	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	24.9	26.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	20.2	25.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.1	3.6	3.0



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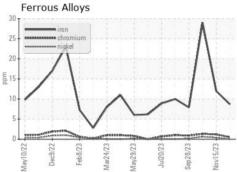


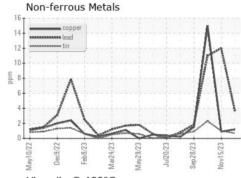


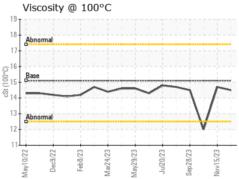
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

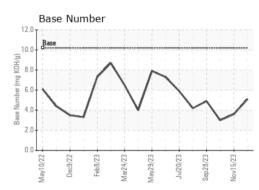
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.7	12.0

GRAPHS













Certificate L2367

Laboratory

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103363 : 06042850

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

Recieved : 10803458

: 22 Dec 2023 : 26 Dec 2023 Diagnosed Diagnostician : Wes Davis

7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

GFL Environmental - 836 - Kansas City Hauling

* - 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)