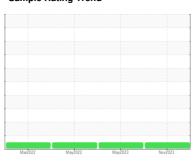


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 932012

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.

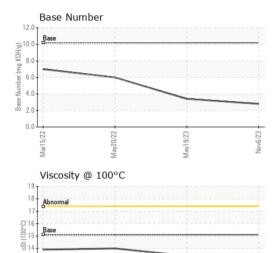
Fluid Condition

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

(GAL)		Mar202	2 May2022	May2023 No	ov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0050908	GFL0084245	GFL0043311
Sample Date		Client Info		06 Nov 2023	19 May 2023	20 May 2022
Machine Age	hrs	Client Info		4724	3483	913
Oil Age	hrs	Client Info		3483	3483	343
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	4	10
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		<1	0	2
Lead	ppm	ASTM D5185m	>30	12	5	<1
Copper	ppm	ASTM D5185m		2	2	4
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	3	5	32
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	50	61	55	47
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	560	619	594	579
Calcium	ppm	ASTM D5185m	1510	1541	1646	1519
Phosphorus	ppm	ASTM D5185m	780	757	724	727
Zinc	ppm	ASTM D5185m		988	999	885
Sulfur	ppm	ASTM D5185m	2040	2424	2780	2140
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	8	20
Sodium	ppm	ASTM D5185m		8	14	4
Potassium	ppm	ASTM D5185m	>20	0	6	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.3	11.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	24.4	19.3
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	20.0	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.8	3.4	6



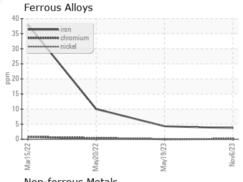
OIL ANALYSIS REPORT

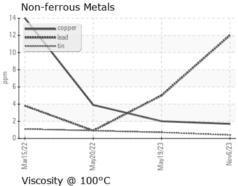


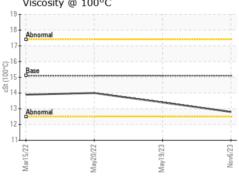
					history2
White Metal sca	lar *Visual	NONE	NONE	NONE	LIGHT
Yellow Metal sca	lar *Visual	NONE	NONE	NONE	NONE
Precipitate sca	lar *Visual	NONE	NONE	NONE	NONE
Silt sca	lar *Visual	NONE	NONE	NONE	NONE
Debris sca	lar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt sca	lar *Visual	NONE	NONE	NONE	NONE
Appearance sca	lar *Visual	NORML	NORML	NORML	NORML
Odor sca	lar *Visual	NORML	NORML	NORML	NORML
Emulsified Water sca	lar *Visual	>0.1	NEG	NEG	NEG
Free Water sca	lar *Visual		NEG	NEG	NEG

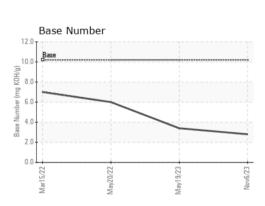
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	12.8	13.4	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10737130 Test Package : FLEET

: GFL0050908 : 06003368

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Nov 2023 Diagnosed : 10 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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)

T:

F: