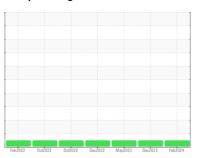


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 945009-260265

Component

Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

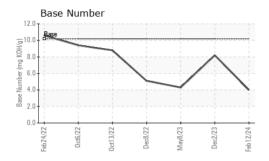
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

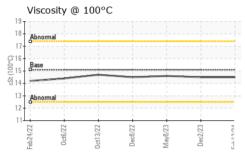
GAL)		Feb 2022	Oct2022 Oct2022	Dec2022 May2023 Dec2023	Feb2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106816	GFL0092068	GFL0078158
Sample Date		Client Info		12 Feb 2024	02 Dec 2023	08 May 2023
Machine Age	hrs	Client Info		12153	87949	8984
Oil Age	hrs	Client Info		0	87949	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	28	3	9
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	6	1	2
Lead	ppm	ASTM D5185m	>30	7	0	4
Copper	ppm	ASTM D5185m	>35	3	0	2
Tin	ppm	ASTM D5185m	>4	2	0	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	9	44	6
Barium	ppm	ASTM D5185m	5	0	2	2
Molybdenum	ppm	ASTM D5185m	50	56	48	57
Manganese	ppm	ASTM D5185m	0	2	0	<1
Magnesium	ppm	ASTM D5185m	560	646	494	578
Calcium	ppm	ASTM D5185m	1510	1647	1447	1726
Phosphorus	ppm	ASTM D5185m	780	837	701	735
Zinc	ppm	ASTM D5185m	870	1026	845	1059
Sulfur	ppm	ASTM D5185m	2040	2481	2418	2648
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	3	4
Sodium	ppm	ASTM D5185m		12	12	10
Potassium	ppm	ASTM D5185m	>20	<1	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	13.6	6.3	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.6	19.0	22.3
FLUID DEGRA	NOITAD.	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.8	15.8	19.2
D 11 (D10)	1/011/	4 OTL 4 D 0000	400		0.0	1.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 4.0



OIL ANALYSIS REPORT

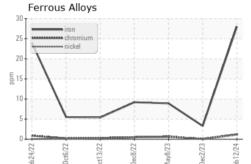


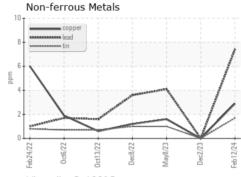


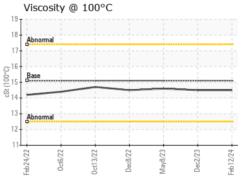
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

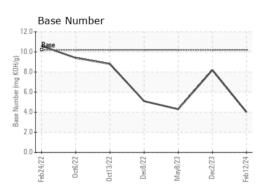
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.5	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0106816 Lab Number : 06089338

Unique Number : 10876783 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX

US 77083 Contact: Apolinar Zacarias pzacariascano@gflenv.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: