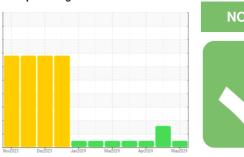


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 934025 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

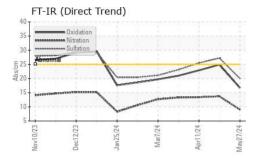
Fluid Condition

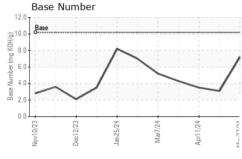
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

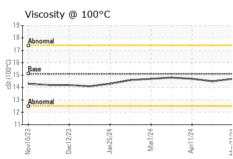
(GAL)		Nov2023	Dec2023 Jan2024	Mar2024 Apr2024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122840	GFL0118851	GFL0114184
Sample Date		Client Info		27 May 2024	02 May 2024	11 Apr 2024
Machine Age	hrs	Client Info		2547	2386	2240
Oil Age	hrs	Client Info		161	2386	2240
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	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	12	48	40
Chromium	ppm	ASTM D5185m	>4	<1	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<u> </u>	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	4	<u> </u>	8
Lead	ppm	ASTM D5185m	>30	1	6	2
Copper	ppm	ASTM D5185m	>35	3	10	10
Tin	ppm	ASTM D5185m	>4	<1	3	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	23	4	7
Barium	ppm	ASTM D5185m	5	<1	0	1
Molybdenum	ppm	ASTM D5185m	50	55	67	63
Manganese	ppm	ASTM D5185m	0	1	5	4
Magnesium	ppm	ASTM D5185m	560	597	710	657
Calcium	ppm	ASTM D5185m	1510	1614	1780	1711
Phosphorus	ppm	ASTM D5185m	780	900	869	778
Zinc	ppm	ASTM D5185m	870	997	1074	1080
Sulfur	ppm	ASTM D5185m	2040	2829	2737	2588
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	12	10
Sodium	ppm	ASTM D5185m		6	11	10
Potassium	ppm	ASTM D5185m	>20	8	9	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	13.7	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	27.2	25.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	24.9	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.2	3.1	3.5



OIL ANALYSIS REPORT



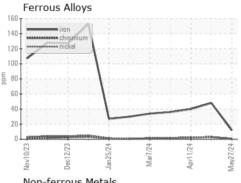


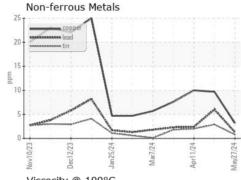


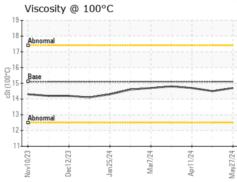
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

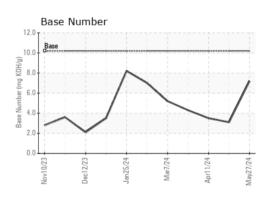
FLUID PROPI	EKITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.5	14.7

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06196344

: GFL0122840 Unique Number : 11058467 Test Package : FLEET

Received : 31 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@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: