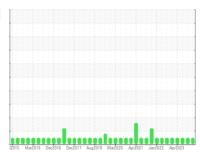


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2611

Component Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

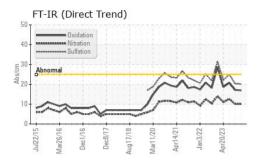
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

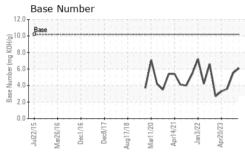
(GAL)		12015 Mar201	6 Dec2016 Dec2017 Aug.	2018 Mar2020 Apr2021 Jan2022	Apr2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123384	GFL0082442	GFL0082457
Sample Date		Client Info		20 Jun 2024	07 Sep 2023	02 Jun 2023
Machine Age	hrs	Client Info		230466	20189	19649
Oil Age	hrs	Client Info		230466	540	1188
Oil Changed	0	Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	8	13
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	1	1	2
Lead	ppm	ASTM D5185m	>30	2	2	7
Copper	ppm	ASTM D5185m	>35	<1	<1	1
Tin	ppm	ASTM D5185m	>4	0	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	14	10	8
Barium	ppm	ASTM D5185m	5	0	44	0
Molybdenum	ppm	ASTM D5185m	50	48	48	47
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	534	495	517
Calcium	ppm	ASTM D5185m	1510	1628	1420	1597
Phosphorus	ppm	ASTM D5185m	780	747	640	688
Zinc	ppm	ASTM D5185m	870	979	864	977
Sulfur	ppm	ASTM D5185m	2040	2845	2480	2383
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	7	4
Sodium	ppm	ASTM D5185m		5	8	10
Potassium	ppm	ASTM D5185m	>20	2	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.1	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	20.4	24.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.2	20.7
	7.00/.1111111		100			

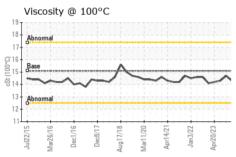
Base Number (BN) mg KOH/g ASTM D2896 10.2 6.1



OIL ANALYSIS REPORT



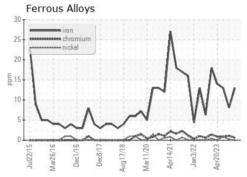


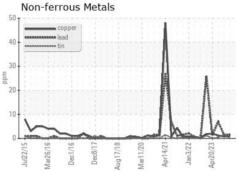


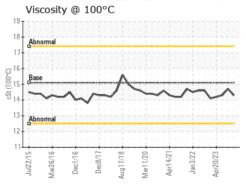
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

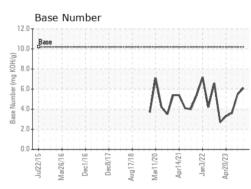
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.7	14.3

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06223342

: GFL0123384

Unique Number : 11101539 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2024 **Tested**

: 01 Jul 2024 Diagnosed : 01 Jul 2024 - Wes Davis

GFL Environmental - 007 - Brunswick 2809 Galloway Road Bolivia, NC

US 28422

T:

Contact: DONALD CRAVEN dcraven@gflenv.com

F: (910)253-4179

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)