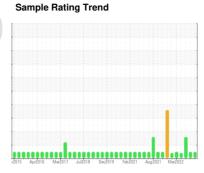


OIL ANALYSIS REPORT

(YA115772) 10364C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 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

Fluid Condition

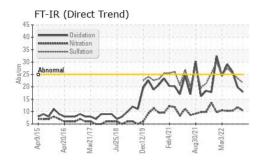
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

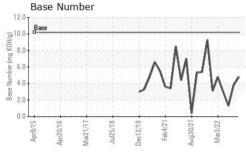
(30 GAL)		r2015 Apr20	16 Mar2017 Jul2018	Dec2019 Feb2021 Aug2021 1	Mar2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123418	GFL0082488	GFL0050778
Sample Date		Client Info		18 Jun 2024	14 Nov 2023	20 Apr 2023
Machine Age	mls	Client Info		177011	177011	13240
Oil Age	mls	Client Info		177011	177011	1217
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	8	20
Chromium	ppm	ASTM D5185m	>4	<1	<1	4
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	2
Lead	ppm	ASTM D5185m	>30	2	<1	11
Copper	ppm	ASTM D5185m	>35	<1	0	4
Tin	ppm	ASTM D5185m	>4	0	<1	<1
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	10	4	11
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	53	54	45
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	587	541	461
Calcium	ppm	ASTM D5185m	1510	1828	1553	1410
Phosphorus	ppm	ASTM D5185m	780	787	693	667
Zinc	ppm	ASTM D5185m	870	1068	957	794
Sulfur	ppm	ASTM D5185m	2040	3014	2329	2653
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	4
Sodium	ppm	ASTM D5185m		7	5	8
Potassium	ppm	ASTM D5185m	>20	2	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.4	25.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	19.8	26.1
CAIGUION	/ 100/- 1111111	.101111011111				

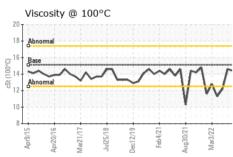
Base Number (BN) mg KOH/g ASTM D2896 10.2 4.8



OIL ANALYSIS REPORT



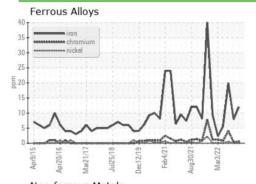


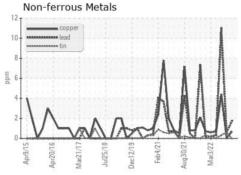


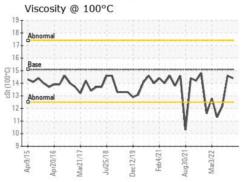
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

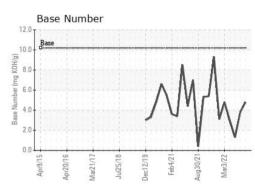
FLUID PROP	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.6	12.2

GRAPHS













Laboratory Sample No. Unique Number : 11088407

: GFL0123418 Lab Number : 06215543

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 21 Jun 2024

Diagnosed : 21 Jun 2024 - Wes Davis

2809 Galloway Road

Bolivia, NC US 28422 Contact: DONALD CRAVEN dcraven@gflenv.com

Test Package : FLEET Certificate 12367 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)

F: (910)253-4179

Report Id: GFL007 [WUSCAR] 06215543 (Generated: 06/21/2024 14:41:44) Rev: 1

Submitted By: DONALD CRAVEN

GFL Environmental - 007 - Brunswick

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