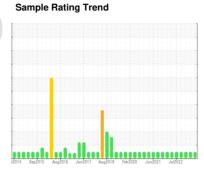


OIL ANALYSIS REPORT

(YA154614) 10370C

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.

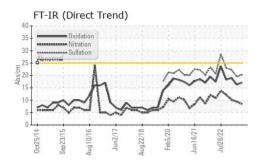
(30 GAL)		t2014 Sep20	15 Aug2016 Jun2017	Aug2018 Feb2020 Jun2021	Jul2022	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123419	GFL0082476	GFL0082410
Sample Date		Client Info		18 Jun 2024	18 Oct 2023	05 Jul 2023
Machine Age	hrs	Client Info		92731	92731	4164
Oil Age	hrs	Client Info		92731	600	1120
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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	8	36	12
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	7	<1
Lead	ppm	ASTM D5185m	>30	4	0	<1
Copper	ppm	ASTM D5185m	>35	2	1	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	23	0	9
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	50	61	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	595	994	565
Calcium	ppm	ASTM D5185m	1510	1723	1100	1680
Phosphorus	ppm	ASTM D5185m	780	852	1029	740
Zinc	ppm	ASTM D5185m	870	1040	1301	970
Sulfur	ppm	ASTM D5185m	2040	3029	2985	2848
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	3
Sodium	ppm	ASTM D5185m		6	3	6
Potassium	ppm	ASTM D5185m	>20	3	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.4	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.5	22.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.3	19.0
	7.0007.1111111		100		10.0	10.0

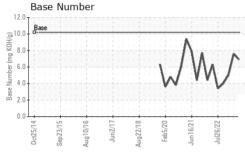
6.9

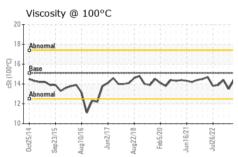
Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT



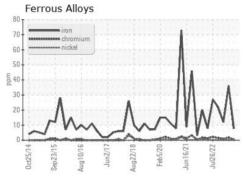


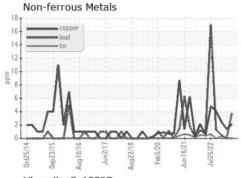


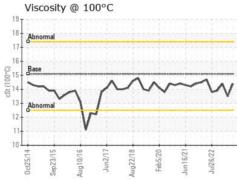
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

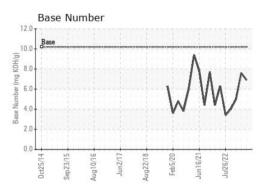
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	13.5	14.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06215571 Unique Number : 11088435

: GFL0123419 Test Package : FLEET

Received : 20 Jun 2024 **Tested**

: 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC US 28422

Contact: DONALD CRAVEN dcraven@gflenv.com

Submitted By: DONALD CRAVEN

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.

F: (910)253-4179 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: