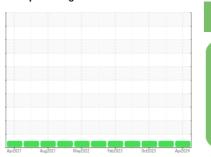


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 944010

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (-

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.

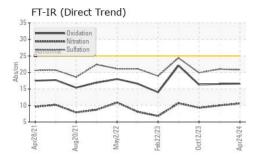
(LTR)		Apr2021	Aug2021 May2022	Feb2023 Oct2023	Apr2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115514	GFL0106996	GFL0094259
Sample Date		Client Info		24 Apr 2024	19 Jan 2024	12 Oct 2023
Machine Age	hrs	Client Info		10778	10072	9516
Oil Age	hrs	Client Info		10778	0	9516
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	20	23	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	1
Lead	ppm	ASTM D5185m	>30	<1	1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<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	2	2	14
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	62	48
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	842	882	503
Calcium	ppm	ASTM D5185m	1510	1182	1079	1355
Phosphorus	ppm	ASTM D5185m	780	998	983	715
Zinc	ppm	ASTM D5185m	870	1190	1219	864
Sulfur	ppm	ASTM D5185m	2040	3426	3096	2206
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	3
Sodium	ppm	ASTM D5185m		19	12	3
Potassium	ppm	ASTM D5185m	>20	9	10	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.3	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.0	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.0	19.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.5	16.3
5 11 1 (5::::	1/011/	AOTH A DOGG	400		0.5	

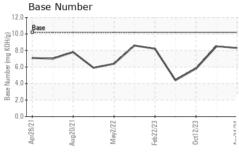
8.3

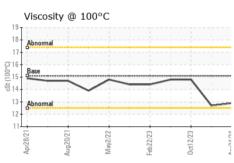
Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT



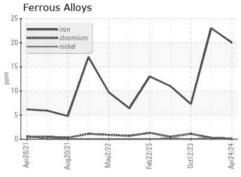


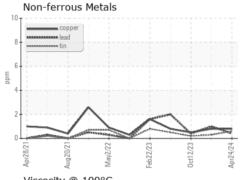


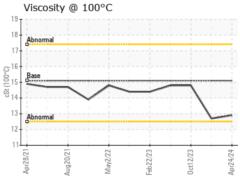
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

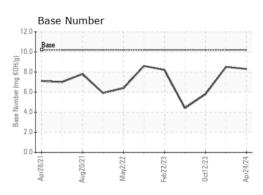
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	12.9	12.7	14.8

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115514 Lab Number : 06161213

Received **Tested** Unique Number : 10996636

: 26 Apr 2024 : 26 Apr 2024 Diagnosed : 29 Apr 2024 - Sean Felton

GFL Environmental - 882 - Gainesville 5002 SW 41st Blvd Gainesville, FL

> US 32608 Contact: ROBERT CLARK robert.clark@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)

Report Id: GFL882 [WUSCAR] 06161213 (Generated: 04/29/2024 13:24:47) Rev: 1

Submitted By: CARL MIMS

T:

F: