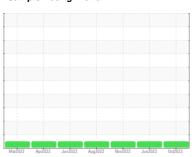


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 932001

Component

Diesel Engine

PETRO CANADA DURON GEO LD 15W40 (40 QTS)

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.

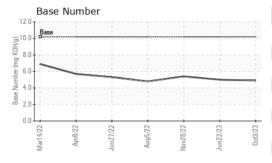
Fluid Condition

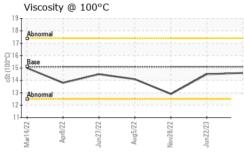
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(40 Q13)		Mar2022	Apr2022 Jun2022	Aug2022 Nov2022 Jun2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090097	GFL0047435	GFL0063813
Sample Date		Client Info		03 Oct 2023	22 Jun 2023	28 Nov 2022
Machine Age	hrs	Client Info		4746	3961	2440
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	4	6	6
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	7	2
Lead	ppm	ASTM D5185m	>150	<1	4	<1
Copper	ppm	ASTM D5185m	>90	1	3	2
Tin	ppm	ASTM D5185m	>5	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	14	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	50	54	49
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	560	556	598	453
Calcium	ppm	ASTM D5185m	1510	1582	1727	1828
Phosphorus	ppm	ASTM D5185m	780	689	739	740
Zinc	ppm	ASTM D5185m	870	937	997	990
Sulfur	ppm	ASTM D5185m	2040	2383	2881	2935
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	7	12
Sodium	ppm	ASTM D5185m		6	8	6
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.0	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.3	23.0
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	18.8	17.2
Base Number (BN)	mg KOH/g		10.2	4.9	5.0	5.4
(DIV)		52000			0.0	0



OIL ANALYSIS REPORT

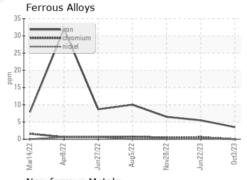


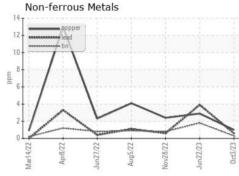


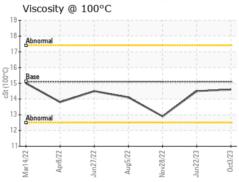
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

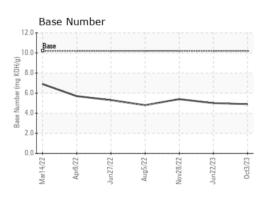
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.5	12.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10682138 Test Package : FLEET

: GFL0090097 : 05970188

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Oct 2023

Diagnosed : 06 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: CHET STROSCHINE

cstroschine@gflenv.com

T:

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: