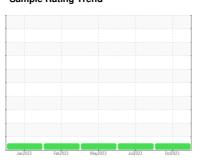


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **428054- 402376**

Component

Diesel Engine

PETRO CANADA DURON GEO LD 15W40 (7 GAL)

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.

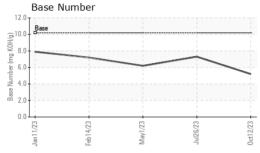
Fluid Condition

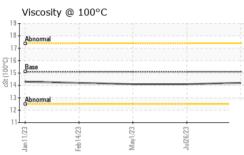
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(/ GAL)		Jan2023	Feb2023	May2023 Jul2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0081112	GFL0081061	GFL0052583
Sample Date		Client Info		12 Oct 2023	26 Jul 2023	01 May 2023
Machine Age	hrs	Client Info		12183	11750	11162
Oil Age	hrs	Client Info		600	153	1200
Oil Changed		Client Info		Changed	Not Changd	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	14	11	9
Chromium	ppm	ASTM D5185m	>5	1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>150	9	<1	0
Copper	ppm	ASTM D5185m	>90	1	<1	0
Tin	ppm	ASTM D5185m	>5	<1	<1	0
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	14	29	23
Barium	ppm	ASTM D5185m	5	12	0	0
Molybdenum	ppm	ASTM D5185m	50	51	53	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	497	555	595
Calcium	ppm	ASTM D5185m	1510	1552	1640	1702
Phosphorus	ppm	ASTM D5185m	780	695	806	816
Zinc	ppm	ASTM D5185m	870	931	1016	1013
Sulfur	ppm	ASTM D5185m	2040	2304	3041	2712
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	5	5	4
Sodium	ppm	ASTM D5185m		7	6	4
Potassium	ppm	ASTM D5185m	>20	4	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.9	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.3	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	20.9	19.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	17.9	17.2
Base Number (BN)	mg KOH/g		10.2	5.2	7.3	6.2
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OIL ANALYSIS REPORT

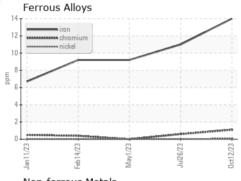


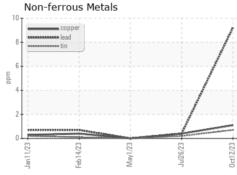


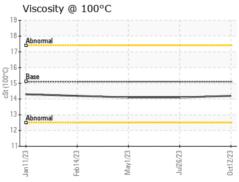
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

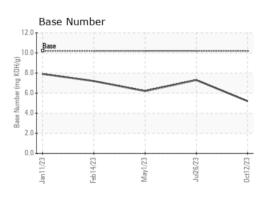
FLUID PROPE	RHES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.1	14.1

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10695976 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0081112 : 05978681

Received : 13 Oct 2023 Diagnosed : 16 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 884 - Lake County - Tavares 321 Southridge Industrial Way

Tavares, FL US 32778

Contact: JEFF COOPERSMITH

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)

T:

F: