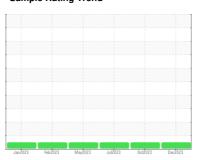


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



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

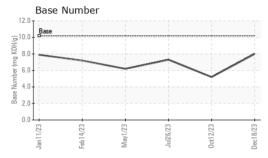
Fluid Condition

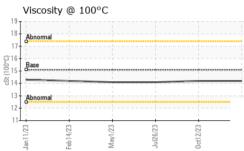
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(7 GAL)		Jan 2023	Feb 2023 May 2023	Jul2023 Oct2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0081043	GFL0081112	GFL0081061	
Sample Date		Client Info		18 Dec 2023	12 Oct 2023	26 Jul 2023	
Machine Age	hrs	Client Info		12499	12183	11750	
Oil Age	hrs	Client Info		316	600	153	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	5	14	11	
Chromium	ppm	ASTM D5185m	>5	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	2	
Lead	ppm	ASTM D5185m	>150	2	9	<1	
Copper	ppm	ASTM D5185m	>90	<1	1	<1	
Tin	ppm	ASTM D5185m	>5	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	28	14	29	
Barium	ppm	ASTM D5185m	5	0	12	0	
Molybdenum	ppm	ASTM D5185m	50	48	51	53	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	560	513	497	555	
Calcium	ppm	ASTM D5185m		1474	1552	1640	
Phosphorus	ppm	ASTM D5185m	780	691	695	806	
Zinc	ppm	ASTM D5185m	870	889	931	1016	
Sulfur	ppm	ASTM D5185m	2040	2302	2304	3041	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	4	5	5	
Sodium	ppm	ASTM D5185m		4	7	6	
Potassium	ppm	ASTM D5185m	>20	<1	4	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.5	0.9	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	11.7	10.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	23.3	20.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	20.8	17.9	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.0	5.2	7.3	



OIL ANALYSIS REPORT

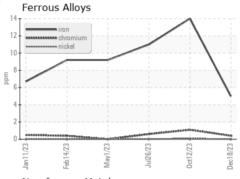


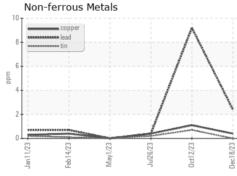


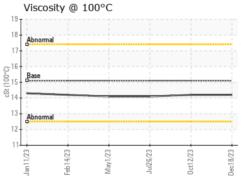
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

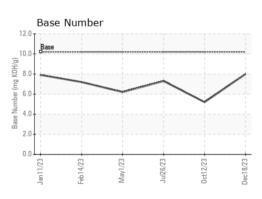
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.2	14.1

GRAPHS











Laboratory Sample No. Lab Number **Unique Number**

: GFL0081043 : 06039980 : 10795209 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Dec 2023 Diagnosed : 20 Dec 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: