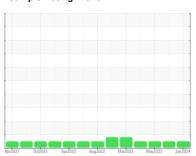


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



429063-402427

Component

Diesel Engine

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

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.

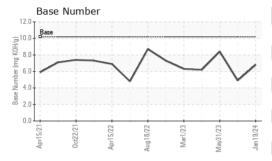
Fluid Condition

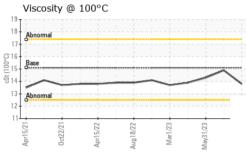
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

<u> </u>		Apr2021	Oct2021 Apr2022	Aug 2022 Mar 2023 May 2023	Jan 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095998	GFL0071724	GFL0071759
Sample Date		Client Info		19 Jan 2024	24 Aug 2023	31 May 2023
Machine Age	hrs	Client Info		14007	17177	12463
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	>5	<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	>110	7	13	3
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	4	<1
Lead	ppm	ASTM D5185m	>45	3	0	1
Copper	ppm	ASTM D5185m	>85	3	<1	15
Tin	ppm	ASTM D5185m	>4	0	<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	22	9	39
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	58	49
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	597	604	557
Calcium	ppm	ASTM D5185m	1510	1631	1838	1585
Phosphorus	ppm	ASTM D5185m	780	832	826	797
Zinc	ppm	ASTM D5185m	870	1029	1129	972
Sulfur	ppm	ASTM D5185m	2040	2555	3231	3060
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	4
Sodium	ppm	ASTM D5185m		7	27	4
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.6	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.7	20.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	17.1	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.8	4.9	8.4
()	0 - 9					



OIL ANALYSIS REPORT

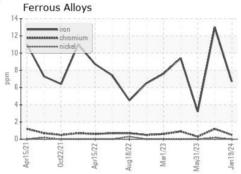


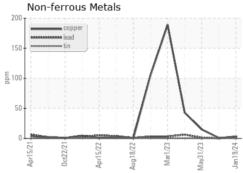


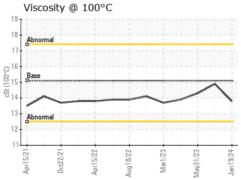
VISUAL		method	limit/base			history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE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

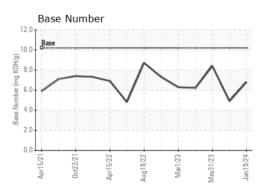
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	14.9	14.3

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10845625 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0095998 : 06068948

Recieved : 23 Jan 2024 : 24 Jan 2024 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 883 - Orange City

1378 South Volusia Ave Orange City, FL US 32763

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM T: (386)503-8468

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: GFL883 [WUSCAR] 06068948 (Generated: 01/24/2024 13:55:34) Rev: 1