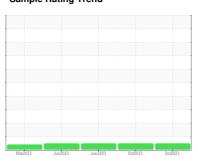


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **413075**

Component **Diesel Engine**

PETRO CANADA DURON GEO LD 15W40 (--- 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

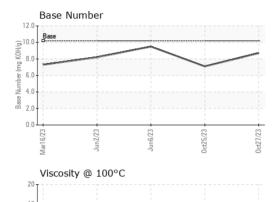
Fluid Condition

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

(GAL)		Mar2023	Jun2023	Jun2023 Oct2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093318	GFL0093290	GFL0083421
Sample Date		Client Info		27 Oct 2023	25 Oct 2023	06 Jun 2023
Machine Age	hrs	Client Info		2455	46767	1185
Oil Age	hrs	Client Info		2455	46767	1185
Oil Changed		Client Info		Not Changd	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	7	10	4
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	21	9
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	2	1	4
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	18	6	<1
Barium	ppm	ASTM D5185m	5	4	0	0
Molybdenum	ppm	ASTM D5185m	50	39	54	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	815	735	1024
Calcium	ppm	ASTM D5185m	1510	1169	1258	1094
Phosphorus	ppm	ASTM D5185m	780	773	849	1049
Zinc	ppm	ASTM D5185m	870	953	1073	1324
Sulfur	ppm	ASTM D5185m	2040	2875	2440	3925
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	10	4	3
Sodium	ppm	ASTM D5185m		0	3	1
Potassium	ppm	ASTM D5185m	>20	17	55	24
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	9.0	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	19.7	18.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	16.9	13.5
Base Number (BN)	mg KOH/g		10.2	8.7	7.1	9.5
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OIL ANALYSIS REPORT

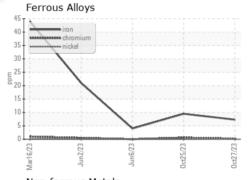


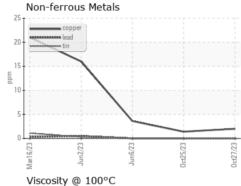
0ct25/23

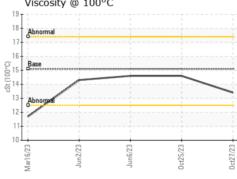
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

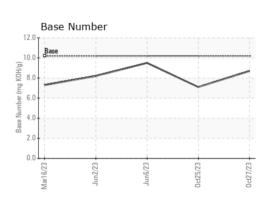
 FLUID PROPE	ERTIES	method				history2
 Visc @ 100°C	cSt	ASTM D445	15.1	13.4	14.6	14.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10726014 Test Package : FLEET

: GFL0093318 : 05997654

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Nov 2023 Diagnosed : 06 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050

Contact: Saul Castillo saul.castillo@gflenv.com

* - 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:

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