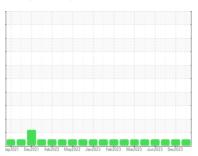


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



741005-310096

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

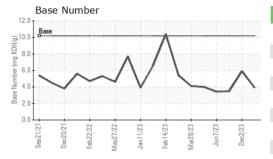
Fluid Condition

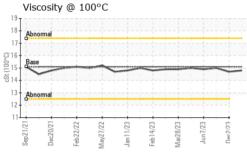
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092027	GFL0092092	GFL0084564
Sample Date		Client Info		05 Dec 2023	02 Dec 2023	14 Jun 2023
Machine Age	hrs	Client Info		8959	87949	7749
Oil Age	hrs	Client Info		600	10841	0
Oil Changed		Client Info		Changed	Not Changd	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	11	9	14
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	2	3
Lead	ppm	ASTM D5185m	>45	0	0	13
Copper	ppm	ASTM D5185m	>85	0	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	9	7
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m	50	57	52	62
Manganese	ppm	ASTM D5185m		0	0	1
Magnesium	ppm	ASTM D5185m	560	583	516	666
Calcium	ppm		1510	1716	1504	2021
Phosphorus	ppm	ASTM D5185m	780	677	653	838
Zinc	ppm	ASTM D5185m	870	1052	889	1100
Sulfur	ppm	ASTM D5185m	2040	2486	2480	2961
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>30	6	8	5
Sodium	ppm	ASTM D5185m		10	39	11
Potassium	ppm	ASTM D5185m	>20	2	10	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.8	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.8	27.2
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	17.7	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.9	5.9	3.5



OIL ANALYSIS REPORT

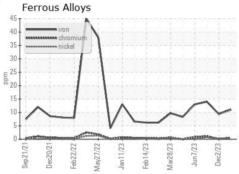


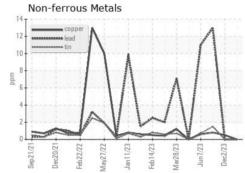


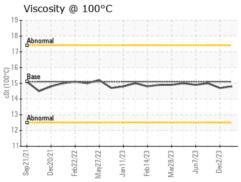
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

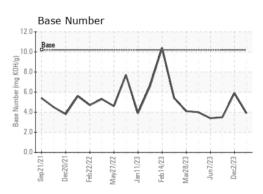
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.7	15.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: GFL0092027 : 06029922 : 10779713

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Dec 2023 Diagnosed : 12 Dec 2023

Diagnostician : Wes Davis GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@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)

Report Id: GFL856 [WUSCAR] 06029922 (Generated: 12/12/2023 08:48:14) Rev: 1

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