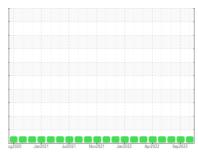


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **830010**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

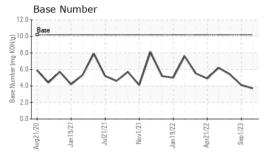
Fluid Condition

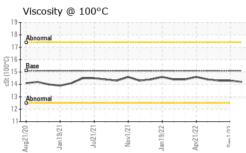
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0069748	GFL0050904	GFL0069710	
Sample Date		Client Info		02 Jan 2024	01 Sep 2023	19 May 2023	
Machine Age	hrs	Client Info		8684	8026	7319	
Oil Age	hrs	Client Info		658	707	7319	
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	
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	>100	13	13	9	
Chromium	ppm	ASTM D5185m	>20	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	0	
Lead	ppm	ASTM D5185m	>40	1	4	2	
Copper	ppm	ASTM D5185m	>330	1	1	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	6	7	8	
Barium	ppm	ASTM D5185m	5	10	0	0	
Molybdenum	ppm	ASTM D5185m	50	60	66	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	569	698	640	
Calcium	ppm	ASTM D5185m	1510	1489	1770	1653	
Phosphorus	ppm	ASTM D5185m	780	786	855	765	
Zinc	ppm	ASTM D5185m	870	960	1104	1063	
Sulfur	ppm	ASTM D5185m	2040	2613	3013	2828	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	4	
Sodium	ppm	ASTM D5185m		<1	9	7	
Potassium	ppm	ASTM D5185m	>20	2	0	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.9	11.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	23.5	20.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.7	16.5	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.7	4.1	5.4	
	0						



OIL ANALYSIS REPORT



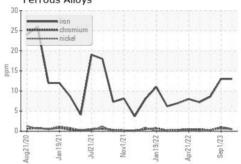


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

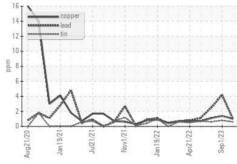
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.3	14.3

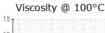
GRAPHS

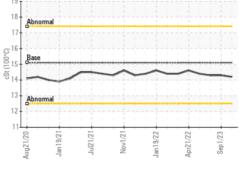
Ferrous Alloys

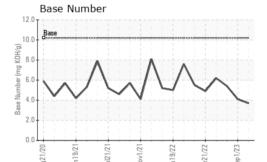
















Certificate L2367

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

: GFL0069748 : 06052726 : 10818675

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 05 Jan 2024

: 08 Jan 2024 Diagnosed : Wes Davis

Diagnostician

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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: GFL031 [WUSCAR] 06052726 (Generated: 01/08/2024 07:55:07) Rev: 1

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