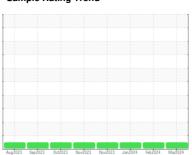


OIL ANALYSIS REPORT

Sample Rating Trend







(42KM3B) Machine Id 834049

Component **Natural Gas Engine**

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

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 oil

Fluid Condition

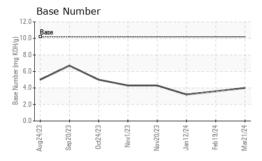
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

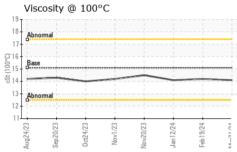
GEO LD 15W40 ((LTR)	Aug2023 8	Sep2023 Oct2023 Nov20	23 Nov2023 Jan2024 Feb2024	Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114117	GFL0108072	GFL0108154
Sample Date		Client Info		21 Mar 2024	19 Feb 2024	12 Jan 2024
Machine Age	hrs	Client Info		1155	1016	841
Oil Age	hrs	Client Info		1155	1016	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	80	64	68
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>2	3	1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>9	6	5	5
Lead	ppm	ASTM D5185m	>30	3	2	1
Copper	ppm	ASTM D5185m		18	15	16
Tin	ppm	ASTM D5185m	>4	2	1	1
√anadium	ppm	ASTM D5185m		- <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	4	8
Barium	ppm	ASTM D5185m		4	3	3
Molybdenum	ppm	ASTM D5185m	50	63	55	54
Vanganese	ppm	ASTM D5185m		15	13	13
-		ASTM D5185m	560	778	744	779
Magnesium	ppm	ASTM D5185m			1214	
Calcium	ppm			1425		1253
Phosphorus	ppm	ASTM D5185m	780	787	697	719
Zinc	ppm	ASTM D5185m		1001	912	916
Sulfur	ppm	ASTM D5185m		2516	2127	2268
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>+100	29	28	32
Sodium	ppm	ASTM D5185m	00	4	7	5
Potassium	ppm	ASTM D5185m		13	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624		14.3	13.1	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	25.7	25.2
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		23.8	23.0	22.5
Dogo Number (DNI)	I/OII/-	ACTM DOOOC	100	4.0	2.6	2.2

Base Number (BN) mg KOH/g ASTM D2896 10.2 4.0



OIL ANALYSIS REPORT

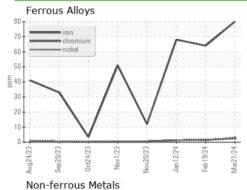


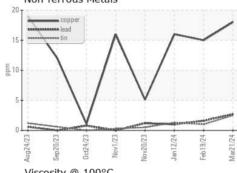


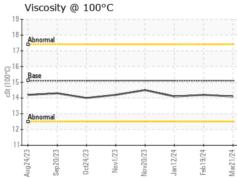
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

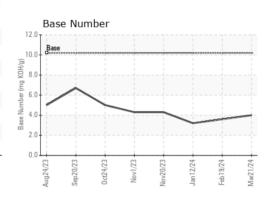
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.2	14.1	

GRAPHS













Laboratory Sample No. Lab Number : 06130427

: GFL0114117 Unique Number : 10949892 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Mar 2024 **Tested** Diagnosed

: 28 Mar 2024 : 30 Mar 2024 - Don Baldridge

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.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: GFL836 [WUSCAR] 06130427 (Generated: 03/30/2024 11:23:13) Rev: 1

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