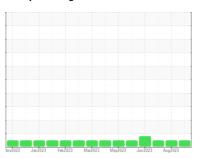


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 933021

Component **Natural Gas 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.

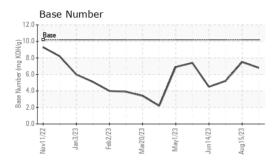
Fluid Condition

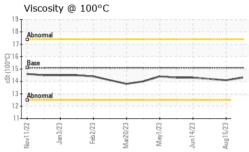
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)		Vov2022 J	an 2023 Feb 2023 Ma	2023 May2023 Jun2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090681	GFL0087199	GFL0087190
Sample Date		Client Info		12 Sep 2023	15 Aug 2023	18 Jul 2023
Machine Age	hrs	Client Info		2711	2546	2369
Oil Age	hrs	Client Info		311	0	1200
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	3	6
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	1	2
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	2	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	23	34	12
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	51	49	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	575	557	585
Calcium	ppm	ASTM D5185m	1510	1607	1643	1641
Phosphorus	ppm	ASTM D5185m	780	769	769	727
Zinc	ppm	ASTM D5185m	870	978	925	958
Sulfur	ppm	ASTM D5185m	2040	2624	2814	2851
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	10	6	10
Sodium	ppm	ASTM D5185m		5	4	3
Potassium	ppm	ASTM D5185m	>20	2	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.5	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.6	20.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	15.5	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.8	7.5	5.2



OIL ANALYSIS REPORT

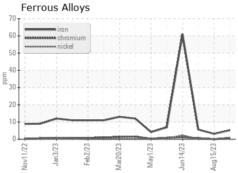


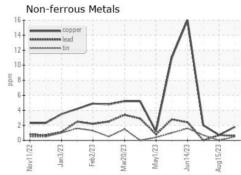


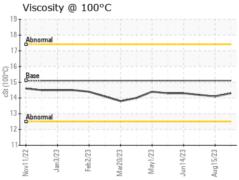
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

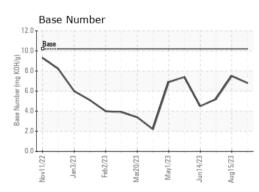
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.1	14.2

GRAPHS













Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05953802 : 10655015

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

: GFL0090681

Received Diagnosed

: 18 Sep 2023 : 20 Sep 2023 Diagnostician : Don Baldridge GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart

rhart@gflenv.com T: (580)461-1509

* - 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)