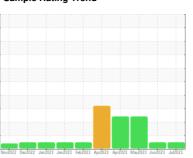


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 933022

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.

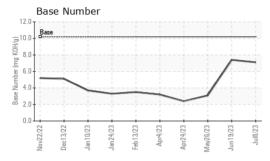
Fluid Condition

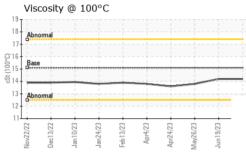
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)		Nov2022 Dec2	022 Jan2023 Jan2023 Feb2	023 Apr2023 Apr2023 May2023 Jun2	023 Jul2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083756	GFL0083800	GFL0083816
Sample Date		Client Info		08 Jul 2023	19 Jun 2023	26 May 2023
Machine Age	hrs	Client Info		1967	1839	1685
Oil Age	hrs	Client Info		767	0	1200
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	8	44
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	<1	<u> 11</u>
Lead	ppm	ASTM D5185m	>30	2	2	13
Copper	ppm	ASTM D5185m	>35	4	4	15
Tin	ppm	ASTM D5185m	>4	<1	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	22	32	6
Barium	ppm	ASTM D5185m	5	0	0	3
Molybdenum	ppm	ASTM D5185m	50	49	53	55
Manganese	ppm	ASTM D5185m	0	<1	<1	4
Magnesium	ppm	ASTM D5185m	560	589	552	839
Calcium	ppm	ASTM D5185m	1510	1481	1458	1336
Phosphorus	ppm	ASTM D5185m	780	740	752	751
Zinc	ppm	ASTM D5185m	870	915	901	966
Sulfur	ppm	ASTM D5185m	2040	2802	2494	2747
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	13	14	▲ 72
Sodium	ppm	ASTM D5185m		4	0	6
Potassium	ppm	ASTM D5185m	>20	5	2	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.9	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.1	28.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.5	26.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.1	7.4	3.1



OIL ANALYSIS REPORT

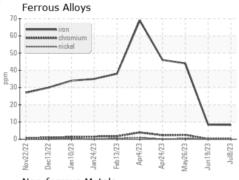


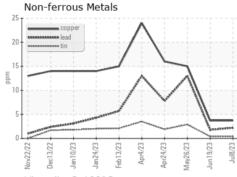


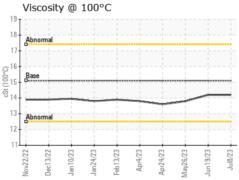
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

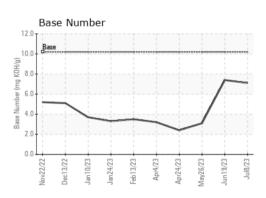
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.2	13.8

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10552963

: GFL0083756 : 05897153 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jul 2023 Diagnosed

: 13 Jul 2023 Diagnostician : Wes Davis

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

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)