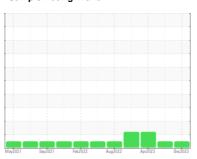


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 944031 Component

Natural Gas Engine

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

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.

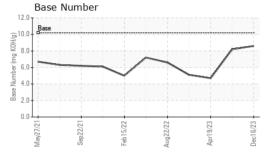
Fluid Condition

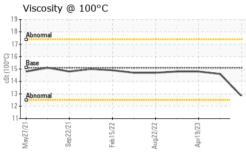
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(LTR)		May2021	Sep2021 Feb2022	Aug2022 Apr2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106970	GFL0089738	GFL0077332
Sample Date		Client Info		16 Dec 2023	12 Sep 2023	19 Apr 2023
Machine Age	hrs	Client Info		22052	21712	21080
Oil Age	hrs	Client Info		340	632	1119
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	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	20	5	15
Chromium	ppm	ASTM D5185m	>4	<1	0	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	3	5
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>35	<1	<1	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
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	1	27	5
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	51	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	820	607	583
Calcium	ppm	ASTM D5185m	1510	1006	1637	1482
Phosphorus	ppm	ASTM D5185m	780	895	798	734
Zinc	ppm	ASTM D5185m	870	1111	999	1017
Sulfur	ppm	ASTM D5185m	2040	2750	3009	2656
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	5
Sodium	ppm	ASTM D5185m		17	5	<u>^</u> 299
Potassium	ppm	ASTM D5185m	>20	6	2	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.4	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.7	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	17.6	22.0
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	14.9	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.6	8.2	4.7
()	0 - 3					



OIL ANALYSIS REPORT



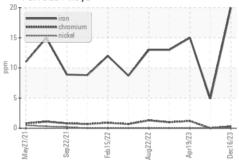


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

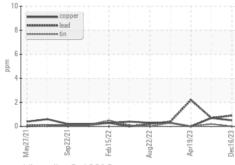
FLUID PROPI	ERIIES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	12.8	14.6	14.8

GRAPHS

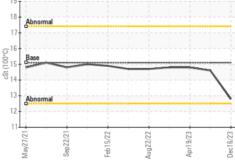
Ferrous Alloys



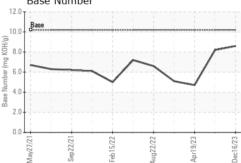








Base Number







Laboratory

Sample No. Lab Number Unique Number : 10795584

: 06040355

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106970

Recieved Diagnosed

: 21 Dec 2023

: 20 Dec 2023

Diagnostician : Sean Felton

Test Package : FLEET (Additional Tests: FT-IR(Diff))

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)

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK

robert.clark@gflenv.com T:

F: