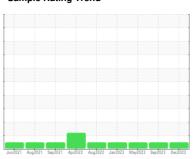


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 944019

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

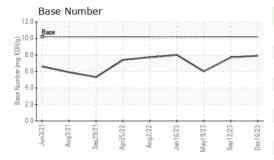
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

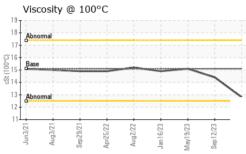
(LTR)		Jun2021 Au	2021 Sep 2021 Apr 2022	Aug2022 Jan2023 May2023 Sep20	23 Dec2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106965	GFL0089722	GFL0077365
Sample Date		Client Info		16 Dec 2023	12 Sep 2023	19 May 2023
Machine Age	hrs	Client Info		25823	25180	24234
Oil Age	hrs	Client Info		643	946	1059
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	19	4	7
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	3	<1
Lead	ppm	ASTM D5185m	>30	1	<1	0
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
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	2	27	7
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	51	52
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	806	603	585
Calcium	ppm	ASTM D5185m	1510	996	1632	1705
Phosphorus	ppm	ASTM D5185m	780	876	798	745
Zinc	ppm	ASTM D5185m	870	1096	994	1004
Sulfur	ppm	ASTM D5185m	2040	2707	2994	2684
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	9
Sodium	ppm	ASTM D5185m		17	5	32
Potassium	ppm	ASTM D5185m	>20	6	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.4	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	17.9	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.1	17.7

Base Number (BN) mg KOH/g ASTM D2896 10.2 7.9



OIL ANALYSIS REPORT



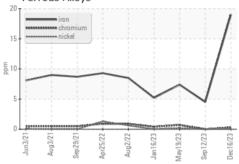


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

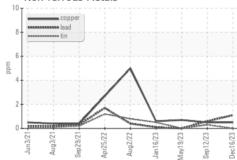
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	12.8	14.4	15.1

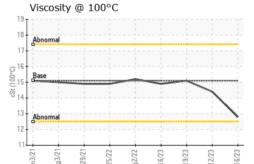
GRAPHS

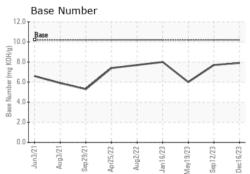
Ferrous Alloys















Laboratory Sample No. Lab Number

: GFL0106965 : 06040366 Unique Number : 10795595

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023 Diagnosed

: 21 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

Submitted By: STEPHEN WEIL

robert.clark@gflenv.com

T:

F: