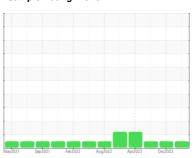


OIL ANALYSIS REPORT

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

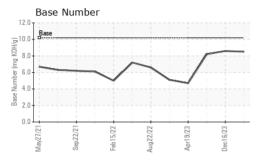
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

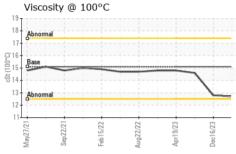
LTR)		May2021	Sep2021 Feb2022	Aug2022 Apr2023 D	nc2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115499	GFL0106970	GFL0089738
Sample Date		Client Info		22 Mar 2024	16 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		22504	22052	21712
Oil Age	hrs	Client Info		452	340	632
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
ron	ppm	ASTM D5185m	>50	14	20	5
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	<1	3
_ead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Γin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<1	1	27
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	39	57	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	587	820	607
Calcium	ppm	ASTM D5185m	1510	709	1006	1637
Phosphorus	ppm	ASTM D5185m	780	652	895	798
Zinc	ppm	ASTM D5185m	870	760	1111	999
Sulfur	ppm	ASTM D5185m	2040	2196	2750	3009
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	1	3	3
Sodium	ppm	ASTM D5185m		11	17	5
Potassium	ppm	ASTM D5185m	>20	4	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	1.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	20.9	17.6
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.6	14.9
Page Number (PNI)	ma 1/011/2	ACTM DODGO	10.0	0.5	0.6	0.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.5



OIL ANALYSIS REPORT



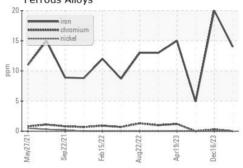


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

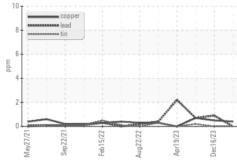
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	12.7	12.8	14.6

GRAPHS

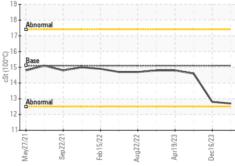




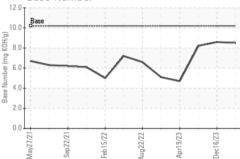








Base Number







Certificate L2367

Laboratory Sample No. Lab Number : 06129186

Test Package : FLEET

: GFL0115499

Unique Number: 10943337

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Mar 2024 **Tested** : 27 Mar 2024

Diagnosed : 27 Mar 2024 - Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL

US 32608 Contact: ROBERT CLARK

robert.clark@gflenv.com T:

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: GFL882 [WUSCAR] 06129186 (Generated: 03/27/2024 09:37:08) Rev: 1

Submitted By: STEPHEN WEIL

F: