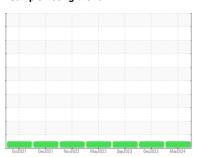


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 711008 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

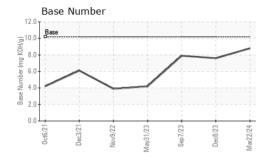
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

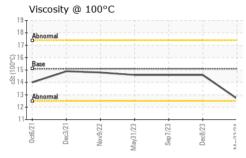
(LTR)		0ct2021	Dec2021 Nov2022	May2023 Sep2023 Dec2023	Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115492	GFL0094230	GFL0089730
Sample Date		Client Info		22 Mar 2024	08 Dec 2023	07 Sep 2023
Machine Age	hrs	Client Info		6772	6054	5410
Oil Age	hrs	Client Info		718	644	698
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	20	5	4
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	2
Lead	ppm	ASTM D5185m	>30	2	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	26	27
Barium	ppm	ASTM D5185m	5	0	11	0
Molybdenum	ppm	ASTM D5185m	50	58	50	50
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	882	542	618
Calcium	ppm	ASTM D5185m	1510	1066	1462	1589
Phosphorus	ppm	ASTM D5185m	780	1034	762	806
Zinc	ppm	ASTM D5185m	870	1241	915	1031
Sulfur	ppm	ASTM D5185m	2040	3415	2733	3176
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	3
Sodium	ppm	ASTM D5185m		17	4	4
Potassium	ppm	ASTM D5185m	>20	10	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	8.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	18.5	18.3
FLUID DEGRA	NOITAD	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.1	15.7

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.8



OIL ANALYSIS REPORT

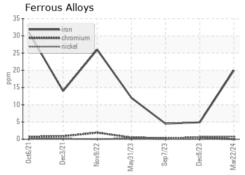


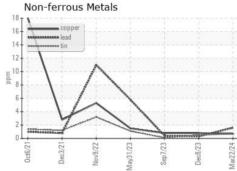


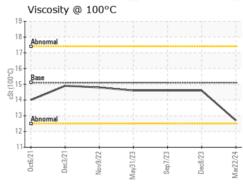
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

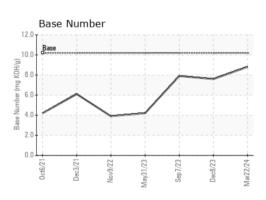
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	12.7	14.6	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0115492 Lab Number : 06129113 Unique Number : 10943264 Test Package : FLEET

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

Diagnosed : 28 Mar 2024 - Don Baldridge

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK

robert.clark@gflenv.com

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)

T:

F: