

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

711008 Component Natural Gas Engine Fluid 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.

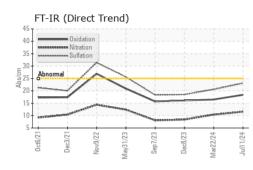
Fluid Condition

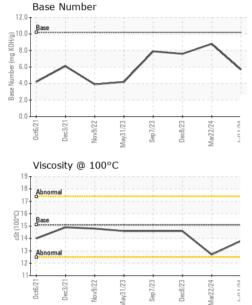
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119109	GFL0115492	GFL0094230
Sample Date		Client Info		11 Jul 2024	22 Mar 2024	08 Dec 2023
Machine Age	hrs	Client Info		7622	6772	6054
Oil Age	hrs	Client Info		850	718	644
Oil Changed		Client Info		Changed	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
Iron	ppm	ASTM D5185m	>50	16	20	5
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	5	2	1
Lead	ppm	ASTM D5185m	>30	2	2	<1
Copper	ppm	ASTM D5185m	>35	2	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	6	26
Barium	ppm	ASTM D5185m	5	<1	0	11
Molybdenum	ppm	ASTM D5185m	50	61	58	50
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	653	882	542
Calcium	ppm	ASTM D5185m	1510	1511	1066	1462
Phosphorus	ppm	ASTM D5185m	780	803	1034	762
Zinc	ppm	ASTM D5185m	870	1095	1241	915
Sulfur	ppm	ASTM D5185m	2040	2635	3415	2733
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	3
Sodium	ppm	ASTM D5185m		25	17	4
Potassium	ppm	ASTM D5185m	>20	26	10	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.4	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.6	10.4	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	20.6	18.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	16.5	16.1



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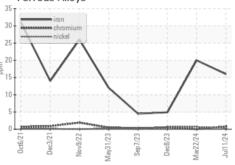


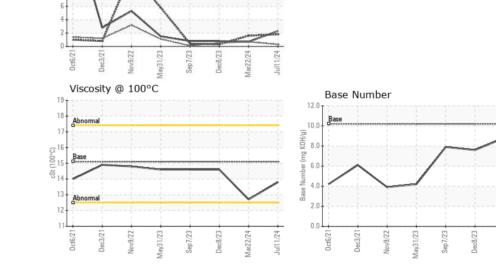


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	12.7	14.6
GRAPHS						

Ferrous Alloys

Non-ferrous Metals





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 882 - Gainesville Sample No. : GFL0119109 Received : 15 Jul 2024 5002 SW 41st Blvd Lab Number : 06235595 Tested : 15 Jul 2024 Gainesville, FL Unique Number : 11124429 Diagnosed : 15 Jul 2024 - Wes Davis US 32608 Test Package : FLEET Contact: ROBERT CLARK Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. robert.clark@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: CARL MIMS

Page 2 of 2

Jul11/24

Mar22/24