

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 934023

Natural Gas Engine Fluid

ETRO CANADA	DURON	GEO LD	15W40	(GAL))

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0114004	GFL0114018	GFL010985(
We advise that you check for the source of water	Sample Date		Client Info		03 Apr 2024	08 Mar 2024	16 Feb 2024
entry. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.	Machine Age	hrs	Client Info		1951	1793	1676
	Oil Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Weer	Sample Status				ABNORMAL	ABNORMAL	NORMAL
All component wear rates are normal.	WEAR METAL	S	method	limit/base	current	history1	history2
Contamination	Iron	maa	ASTM D5185m	>50	20	20	10
There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.	Chromium	mag	ASTM D5185m	>4	2	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	1	0
	Titanium	ppm	ASTM D5185m		0	0	0
Fluid Condition	Silver	ppm	ASTM D5185m	>3	0	0	0
The oil viscosity is lower than normal. The BN result	Aluminum	ppm	ASTM D5185m	>9	2	7	2
indicates that there is suitable alkalinity remaining in the oil.	Lead	ppm	ASTM D5185m	>30	3	4	3
	Copper	ppm	ASTM D5185m	>35	18	3	1
	Tin	ppm	ASTM D5185m	>4	<1	2	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	50	9	8	17
	Barium	ppm	ASTM D5185m	5	0	0	<1
	Molybdenum	ppm	ASTM D5185m	50	57	60	51
	Manganese	ppm	ASTM D5185m	0	<1	2	0
	Magnesium	ppm	ASTM D5185m	560	579	635	531
	Calcium	ppm	ASTM D5185m	1510	1783	1837	1449
	Phosphorus	ppm	ASTM D5185m	780	802	856	753
	Zinc	ppm	ASTM D5185m	870	1068	1104	947
	Sulfur	ppm	ASTM D5185m	2040	3158	3026	2438
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>+100	7	8	5
	Sodium	ppm	ASTM D5185m		66	9	0
	Potassium	ppm	ASTM D5185m	>20	19	3	2
	Water	%	ASTM D6304	>0.1	6 0.391		
	ppm Water	ppm	ASTM D6304	>1000	A 3910		
	Glycol	%	*ASTM D2982		0.0		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	12.1	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	25.1	19.6
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	20.6	16.7
	Base Number (BN)	ma KOH/a	ASTM D2896	10.2	5.6	▲ 3.6	6.9

DIAGNOSIS



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limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.1

15.1

current

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

current

0.2%

NEG

6 10.9

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.7

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

14.04

method

*Visual

*Visual

*Visua

*Visual

*Visual

*Visual

*Visual

*Visual

method

ASTM D445











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0114004 Received : 08 Apr 2024 7801 East Truman Road Lab Number : 06140840 Tested : 15 Apr 2024 Unique Number : 10965648 Diagnosed : 15 Apr 2024 - Jonathan Hester Test Package : FLEET (Additional Tests: Glycol, KF) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. loyce.stewart@gflenv.com * - 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)

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