



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
944010
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115514	GFL0106996	GFL0094259
Sample Date		Client Info		24 Apr 2024	19 Jan 2024	12 Oct 2023
Machine Age	hrs	Client Info		10778	10072	9516
Oil Age	hrs	Client Info		10778	0	9516
Filter Age	hrs	Client Info		0	0	9516
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	20	23	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	1
Lead	ppm	ASTM D5185m	>30	<1	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
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

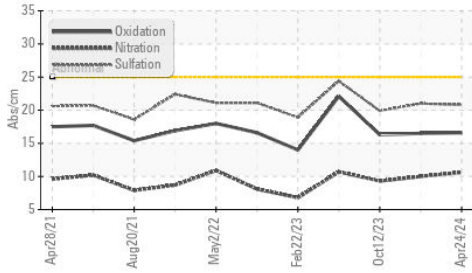
Silicon	ppm	ASTM D5185m	>+100	3	4	3
Potassium	ppm	ASTM D5185m	>20	9	10	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		1.3	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.0	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.0	19.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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

FLUID CONDITION

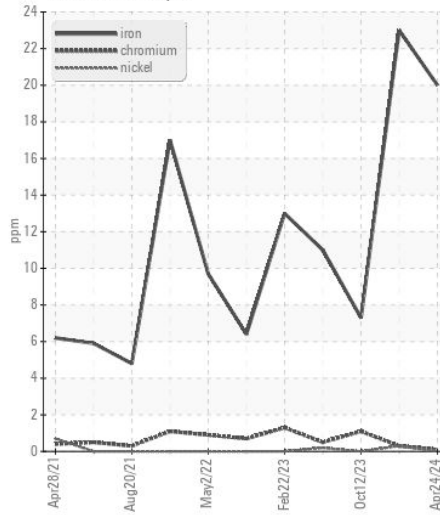
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		19	12	3
Boron	ppm	ASTM D5185m	50	2	2	14
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	62	48
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	842	882	503
Calcium	ppm	ASTM D5185m	1510	1182	1079	1355
Phosphorus	ppm	ASTM D5185m	780	998	983	715
Zinc	ppm	ASTM D5185m	870	1190	1219	864
Sulfur	ppm	ASTM D5185m	2040	3426	3096	2206
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.5	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.3	8.5	5.8
Visc @ 100°C	cSt	ASTM D445	15.1	12.9	12.7	14.8

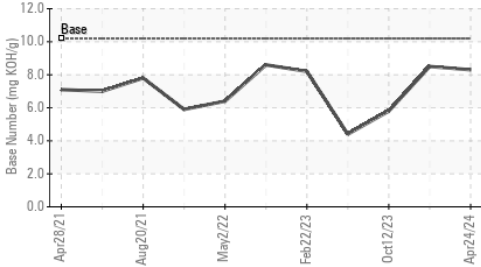
FT-IR (Direct Trend)



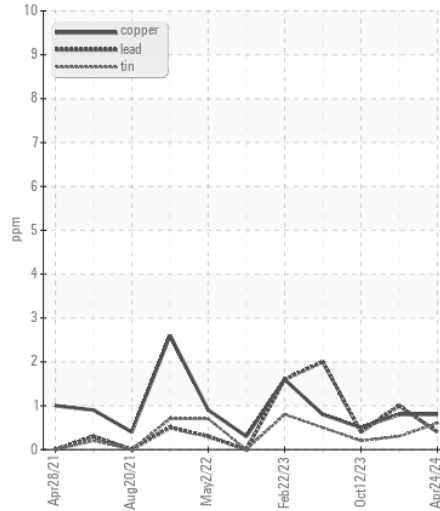
Ferrous Alloys



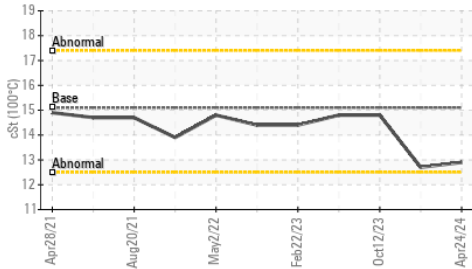
Base Number



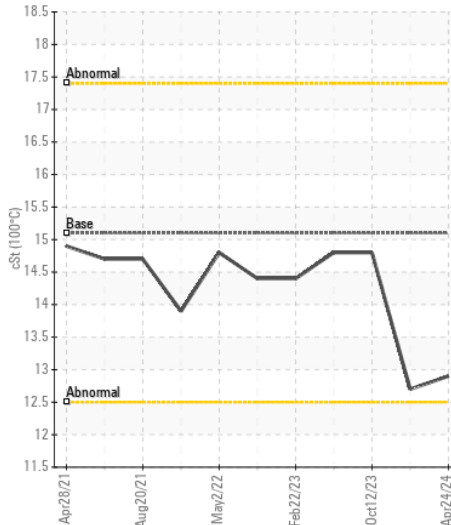
Non-ferrous Metals



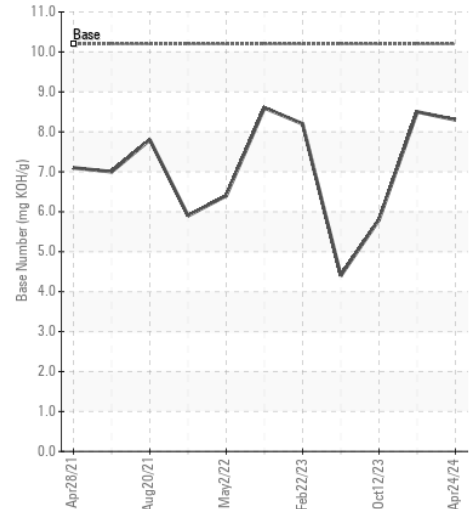
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115514
Lab Number : 06161213
Unique Number : 10996636
Test Package : FLEET

Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Sean Felton

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)

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F: