FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
434023
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

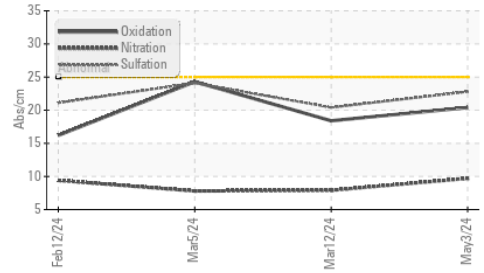
There is no indication of any contamination in the oil.

FLUID CONDITION

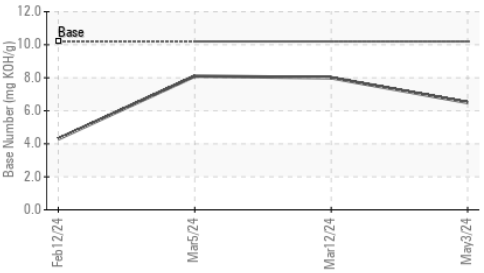
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0117800**	GFL0114425	GFL0114482
Sample Date		Client Info		**03 May 2024**	12 Mar 2024	05 Mar 2024
Machine Age	mls	Client Info		**21253**	13503	741
Oil Age	mls	Client Info		**0**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**14**	9	13
Chromium	ppm	ASTM D5185m	>4	**2**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**6**	4	3
Lead	ppm	ASTM D5185m	>30	**<1**	0	<1
Copper	ppm	ASTM D5185m	>35	**3**	2	4
Tin	ppm	ASTM D5185m	>4	**1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	**9**	7	20
Potassium	ppm	ASTM D5185m	>20	**21**	12	13
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**9.7**	7.9	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.8**	20.4	24.1
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
Sodium	ppm	ASTM D5185m		**4**	4	4
Boron	ppm	ASTM D5185m	50	**16**	27	25
Barium	ppm	ASTM D5185m	5	**2**	<1	2
Molybdenum	ppm	ASTM D5185m	50	**56**	44	42
Manganese	ppm	ASTM D5185m	0	**2**	2	5
Magnesium	ppm	ASTM D5185m	560	**578**	540	715
Calcium	ppm	ASTM D5185m	1510	**1620**	1428	1432
Phosphorus	ppm	ASTM D5185m	780	**789**	733	746
Zinc	ppm	ASTM D5185m	870	**947**	877	921
Sulfur	ppm	ASTM D5185m	2040	**2631**	2617	2612
Oxidation	Abs/.1mm	*ASTM D7414	>25	**20.4**	18.4	24.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	**6.5**	8.0	8.1
Visc @ 100°C	cSt	ASTM D445	15.1	**14.5**	14.3	14.3

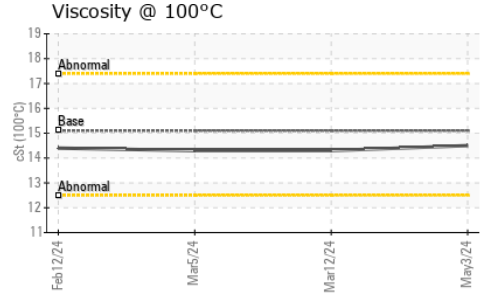
FT-IR (Direct Trend)



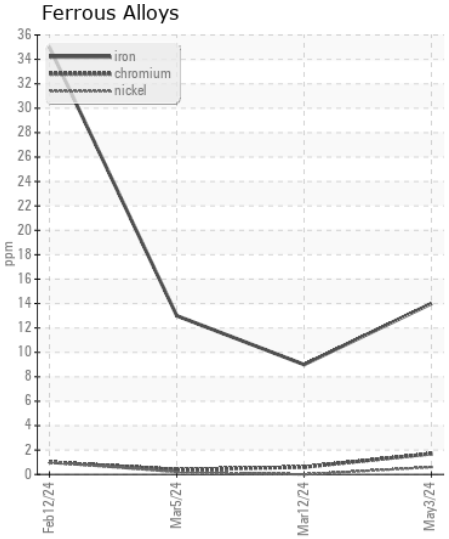
Base Number



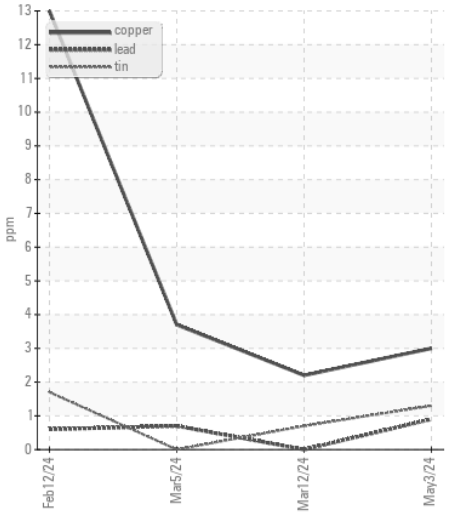
Viscosity @ 100°C



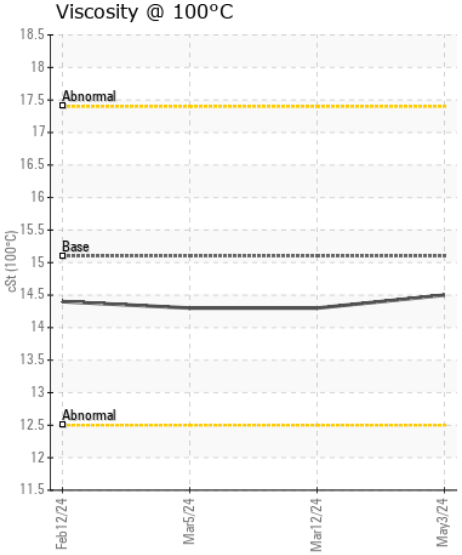
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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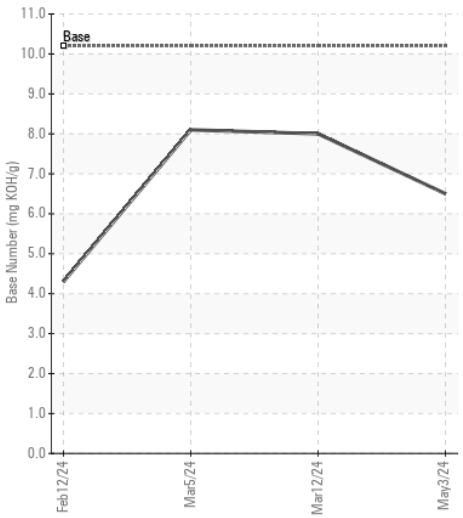

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0117800
Lab Number : 06176625
Unique Number : 11022678
Test Package : FLEET

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling
7213 East Mount Houston Road
Houston, TX
US 77050
Contact: Saul Castillo
saul.castillo@gflenv.com
T:
F:

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)