FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
844003
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

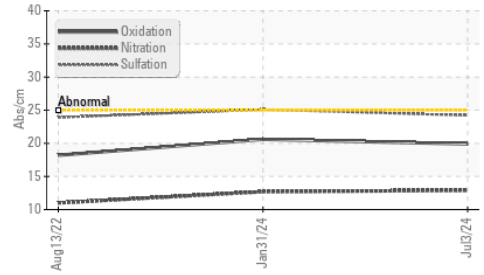
There is no indication of any contamination in the oil.

FLUID CONDITION

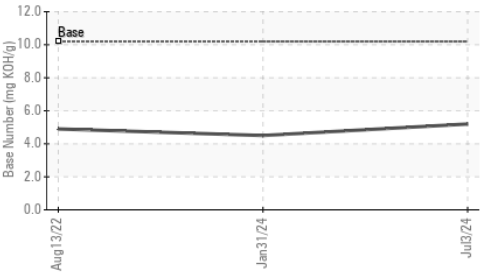
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0118153**	GFL0086722	GFL0056050
Sample Date		Client Info		**03 Jul 2024**	31 Jan 2024	13 Aug 2022
Machine Age	hrs	Client Info		**5074**	4256	703
Oil Age	hrs	Client Info		**818**	4256	703
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Filter Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**14**	14	12
Chromium	ppm	ASTM D5185m	>4	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**4**	2	3
Lead	ppm	ASTM D5185m	>30	**2**	2	3
Copper	ppm	ASTM D5185m	>35	**1**	<1	2
Tin	ppm	ASTM D5185m	>4	**<1**	<1	2
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	**8**	5	5
Potassium	ppm	ASTM D5185m	>20	**6**	11	3
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**12.9**	12.7	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.2**	25.1	23.9
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
Sodium	ppm	ASTM D5185m		**29**	71	20
Boron	ppm	ASTM D5185m	50	**9**	21	9
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	50	**63**	61	80
Manganese	ppm	ASTM D5185m	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	560	**660**	661	505
Calcium	ppm	ASTM D5185m	1510	**1772**	1793	1701
Phosphorus	ppm	ASTM D5185m	780	**889**	844	758
Zinc	ppm	ASTM D5185m	870	**1077**	1101	1009
Sulfur	ppm	ASTM D5185m	2040	**2600**	2723	2964
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.9**	20.6	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	**5.2**	4.5	4.9
Visc @ 100°C	cSt	ASTM D445	15.1	**14.9**	15.1	14.6

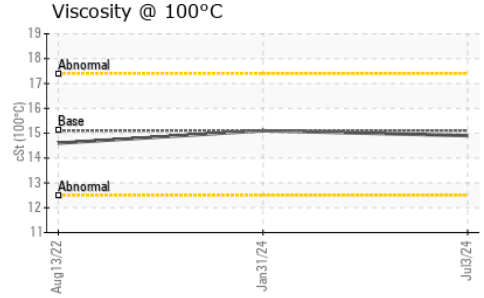
FT-IR (Direct Trend)



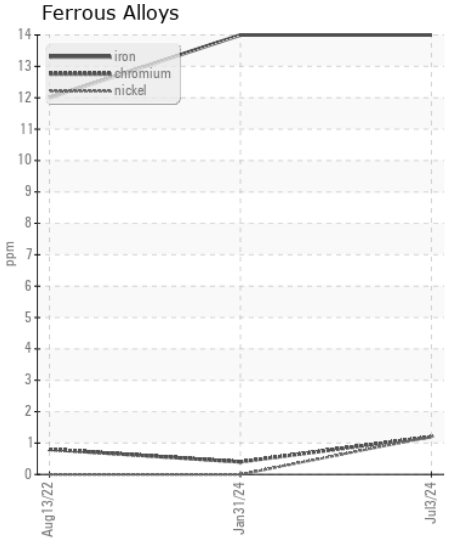
Base Number



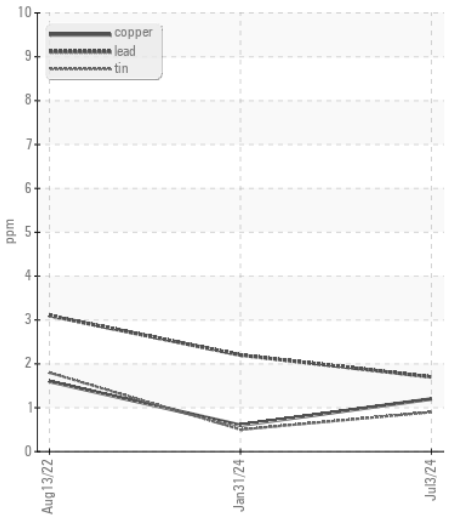
Viscosity @ 100°C



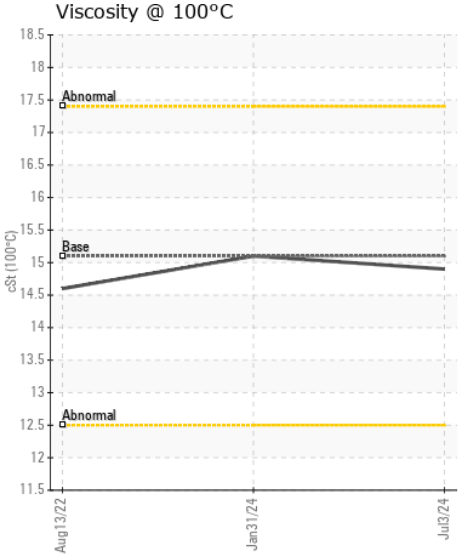
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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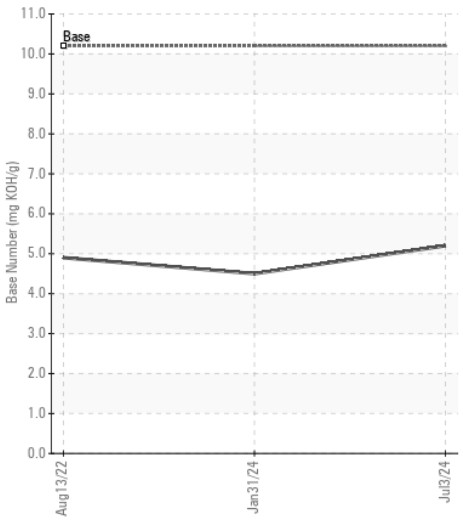

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0118153
Lab Number : 06232010
Unique Number : 11115503
Test Package : FLEET

Received : 10 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Wes Davis

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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