CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Area
Store 4 - Fairmont [RO# 151853]
Machine Id
JOHN DEERE 210G 1FF210GXJNF530240
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

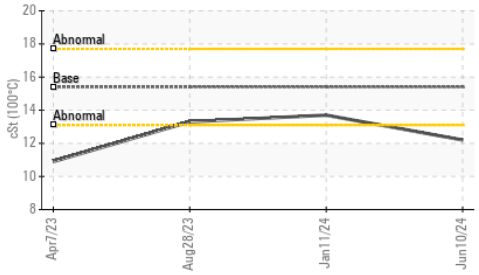
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

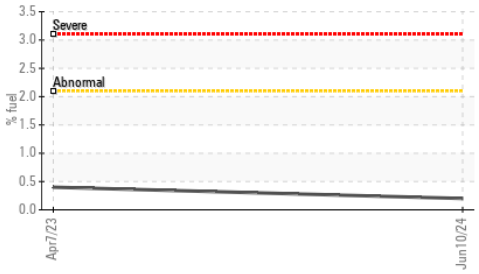
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048310	LEC0047352	LEC0044112
Sample Date		Client Info		10 Jun 2024	11 Jan 2024	28 Aug 2023
Machine Age	hrs	Client Info		2170	1638	1127
Oil Age	hrs	Client Info		532	511	513
Filter Age	hrs	Client Info		532	511	513
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	22	21	26
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	5	4
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	7	14	▲ 79
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	6	7	7
Potassium	ppm	ASTM D5185m	>20	3	1	2
Fuel	%	ASTM D3524	>2.1	0.2	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	22.7	22.5
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	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	4	3	4
Boron	ppm	ASTM D5185m		105	187	171
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		155	240	225
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		585	786	851
Calcium	ppm	ASTM D5185m		2175	1438	1573
Phosphorus	ppm	ASTM D5185m		993	920	894
Zinc	ppm	ASTM D5185m		1175	1096	1129
Sulfur	ppm	ASTM D5185m		3628	2916	3482
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	17.8	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	8.4	7.9
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.2	13.7	13.3

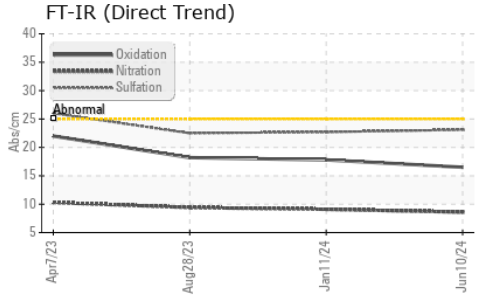
Viscosity @ 100°C



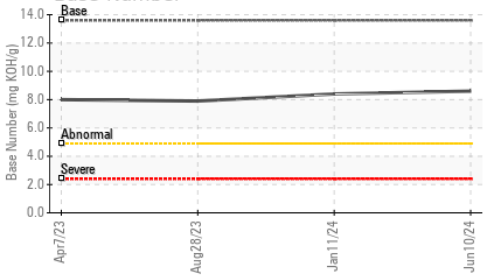
Fuel Dilution



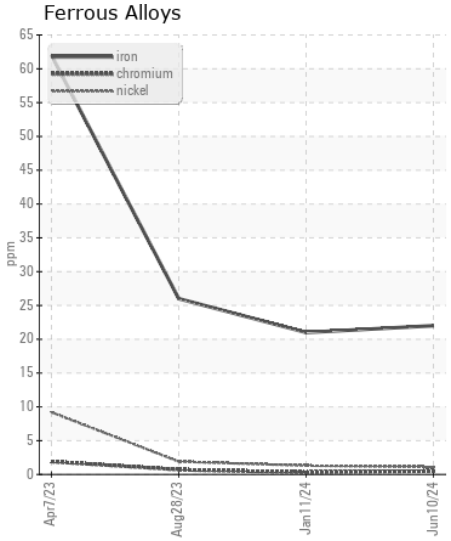
FT-IR (Direct Trend)



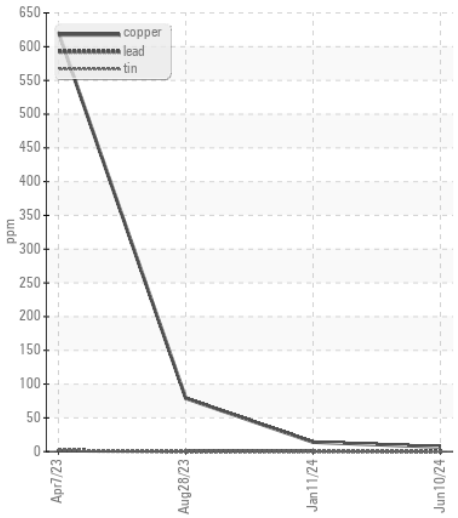
Base Number



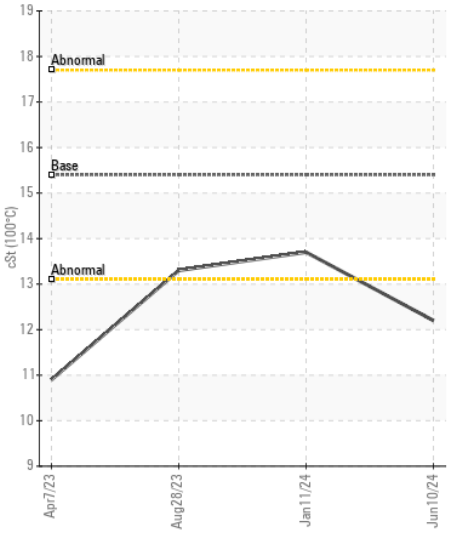
Ferrous Alloys



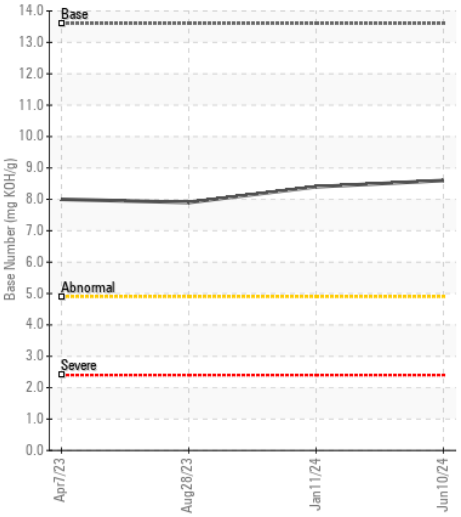
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048310
Lab Number : 06211417
Unique Number : 11084281
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received : 17 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

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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