CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 5 - Cross Lanes
Machine Id
JOHN DEERE 250G E-32 (S/N 1FF250GXKDE608944)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

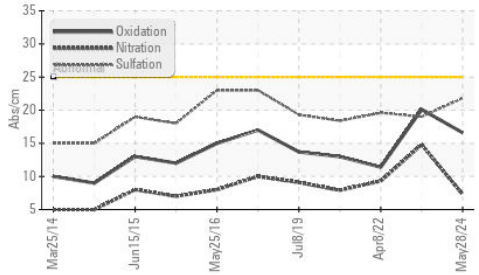
There is no indication of any contamination in the oil.

FLUID CONDITION

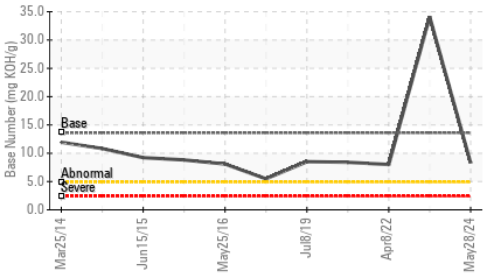
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0039986	LEC0037029	LEC0012300
Sample Date		Client Info		28 May 2024	05 Dec 2022	08 Apr 2022
Machine Age	hrs	Client Info		7604	7138	6674
Oil Age	hrs	Client Info		500	464	6674
Filter Age	hrs	Client Info		500	464	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>51	49	41	43
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	6	4	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	4	13	4
Lead	ppm	ASTM D5185m	>26	0	2	1
Copper	ppm	ASTM D5185m	>26	4	14	24
Tin	ppm	ASTM D5185m	>4	0	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	6	14	5
Potassium	ppm	ASTM D5185m	>20	6	▲ 123	9
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.3	14.8	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.0	19.6
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	7	● 711	28
Boron	ppm	ASTM D5185m		372	276	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		101	● 93	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		453	● 431	94
Calcium	ppm	ASTM D5185m		1444	1446	2221
Phosphorus	ppm	ASTM D5185m		1076	938	883
Zinc	ppm	ASTM D5185m		1227	1092	1106
Sulfur	ppm	ASTM D5185m		3904	3812	2770
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	20.1	11.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	34.1	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	15.2	13.9

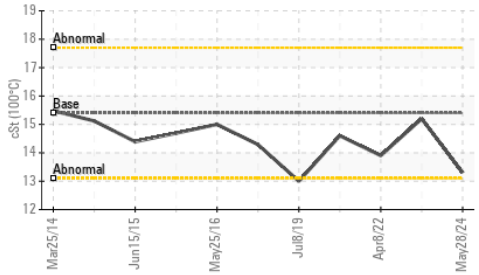
FT-IR (Direct Trend)



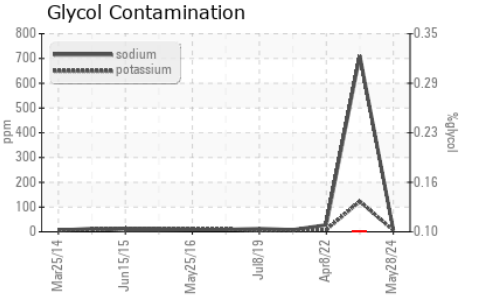
Base Number



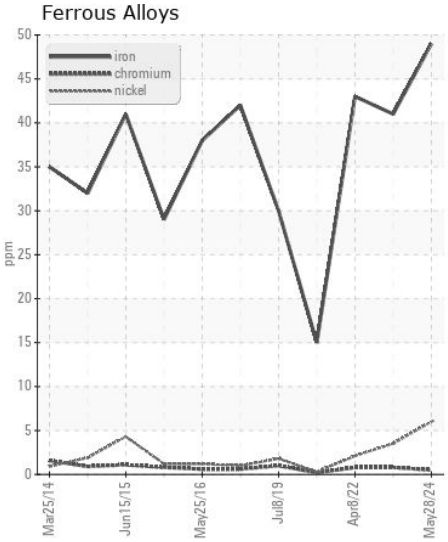
Viscosity @ 100°C



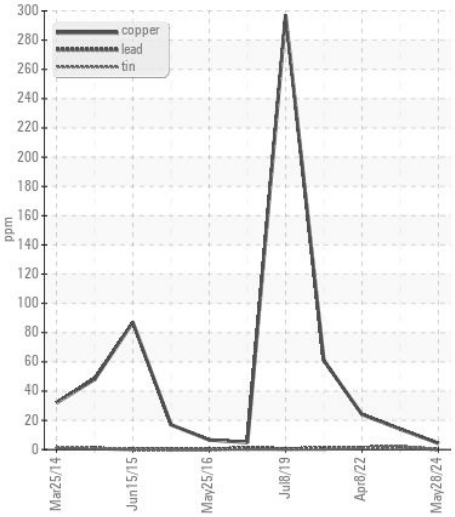
Glycol Contamination



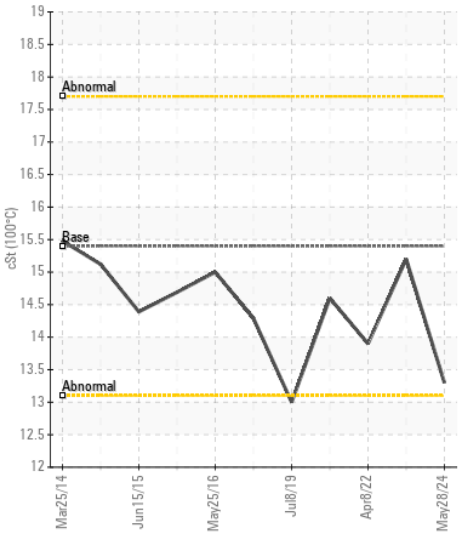
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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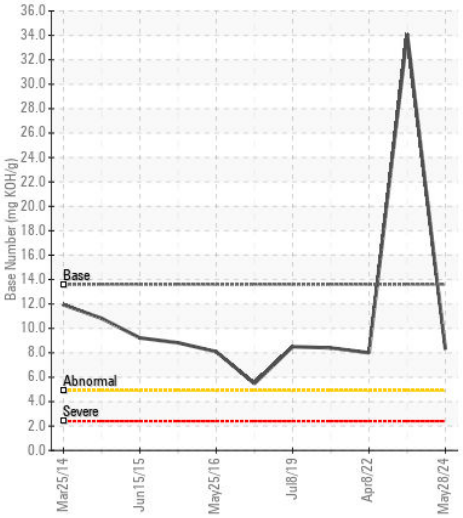

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0039986	**Received**	: 19 Jun 2024
Lab Number	: 06214363	**Tested**	: 21 Jun 2024
Unique Number	: 11087227	**Diagnosed**	: 21 Jun 2024 - Sean Felton
Test Package	: CONST (Additional Tests: TBN)		

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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