



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[16W15804]
 Machine Id
JOHN DEERE 350GLC 1FF350GXHBE808054
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (29 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 16W15804)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206955	JR0160978	JR0153817
Sample Date		Client Info		18 Mar 2024	02 Mar 2023	20 Jan 2023
Machine Age	hrs	Client Info		4597	3946	3809
Oil Age	hrs	Client Info		793	0	3552
Filter Age	hrs	Client Info		793	0	552
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated.

Iron	ppm	ASTM D5185m	>51	▲ 83	23	50
Chromium	ppm	ASTM D5185m	>11	1	<1	2
Nickel	ppm	ASTM D5185m	>5	▲ 16	4	▲ 10
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	3	4
Lead	ppm	ASTM D5185m	>26	1	0	2
Copper	ppm	ASTM D5185m	>26	6	3	11
Tin	ppm	ASTM D5185m	>4	0	0	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

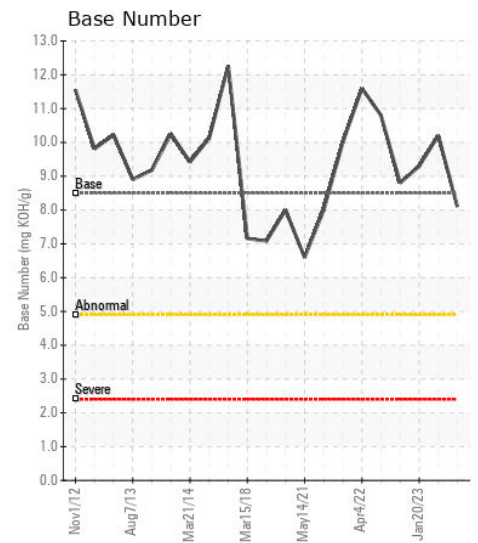
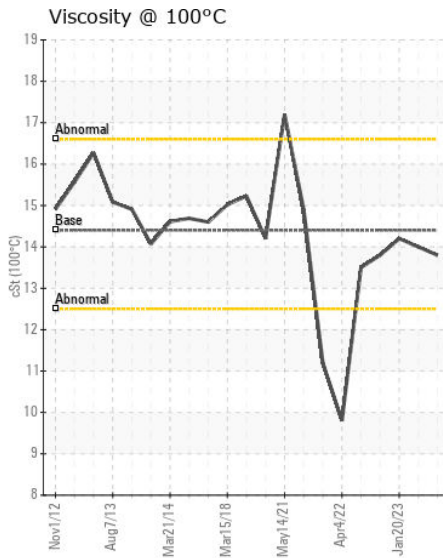
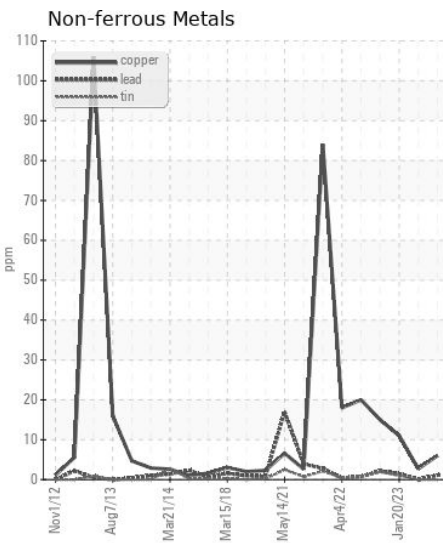
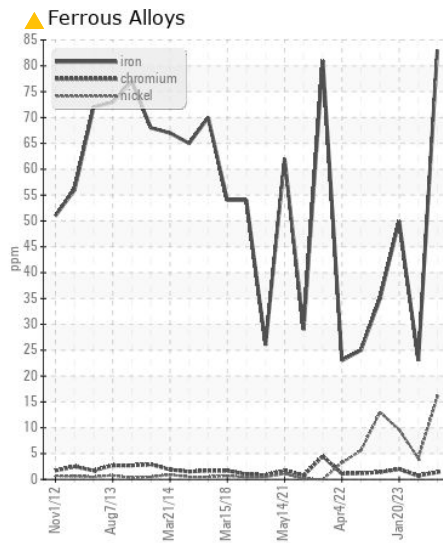
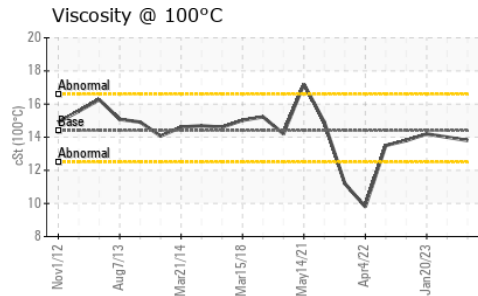
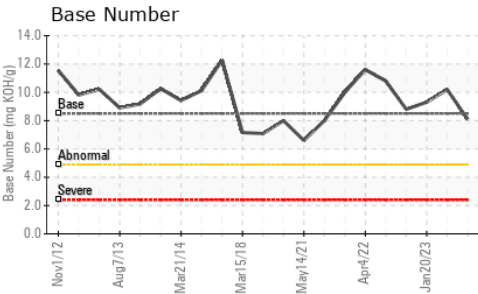
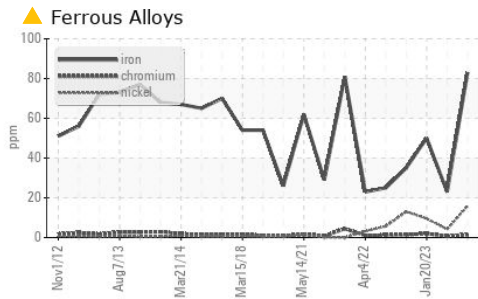
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	9	7	11
Potassium	ppm	ASTM D5185m	>20	5	1	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	10.0	7.6	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	20.6	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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>158	4	3	0
Boron	ppm	ASTM D5185m	250	63	234	121
Barium	ppm	ASTM D5185m	10	0	<1	<1
Molybdenum	ppm	ASTM D5185m	100	227	240	207
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	765	796	666
Calcium	ppm	ASTM D5185m	3000	1651	1498	1665
Phosphorus	ppm	ASTM D5185m	1150	920	899	897
Zinc	ppm	ASTM D5185m	1350	1137	1080	1162
Sulfur	ppm	ASTM D5185m	4250	3456	3654	3415
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	14.8	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.1	10.2	9.3
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.0	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206955 **Received** : 20 Mar 2024
Lab Number : 06123338 **Tested** : 21 Mar 2024
Unique Number : 10937489 **Diagnosed** : 22 Mar 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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