



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[05W47914]

Machine Id

JOHN DEERE 350G 1FF350GXVMF815076

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (27 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218556	JR0211138	JR0173036
Sample Date		Client Info		09 Jul 2024	01 Apr 2024	11 May 2023
Machine Age	hrs	Client Info		3988	3456	2967
Oil Age	hrs	Client Info		532	500	505
Filter Age	hrs	Client Info		532	500	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	36	▲ 52	31
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	5	13	12
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	6	5
Lead	ppm	ASTM D5185m	>26	1	<1	2
Copper	ppm	ASTM D5185m	>26	3	3	4
Tin	ppm	ASTM D5185m	>4	<1	2	2
Vanadium	ppm	ASTM D5185m		<1	<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.

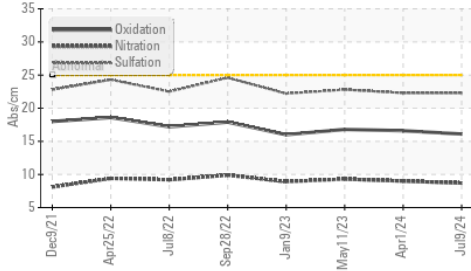
Silicon	ppm	ASTM D5185m	>22	8	7	8
Potassium	ppm	ASTM D5185m	>20	2	4	3
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.0	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.3	22.8
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

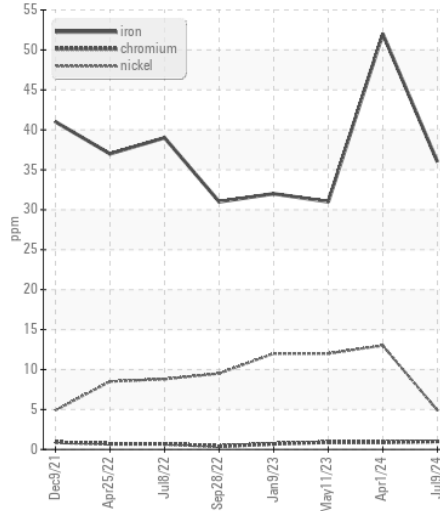
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	2	9	2
Boron	ppm	ASTM D5185m		191	196	181
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		256	258	246
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		801	860	863
Calcium	ppm	ASTM D5185m		1454	1581	1456
Phosphorus	ppm	ASTM D5185m		865	926	891
Zinc	ppm	ASTM D5185m		1070	1134	1142
Sulfur	ppm	ASTM D5185m		3035	3786	3629
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.6	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	9.0	8.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.4	13.3

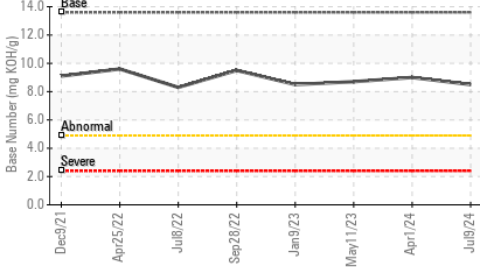
FT-IR (Direct Trend)



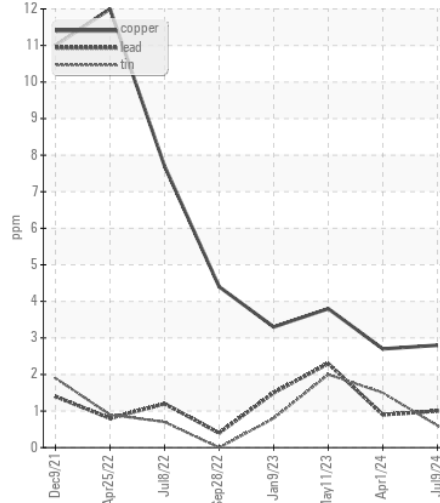
Ferrous Alloys



Base Number



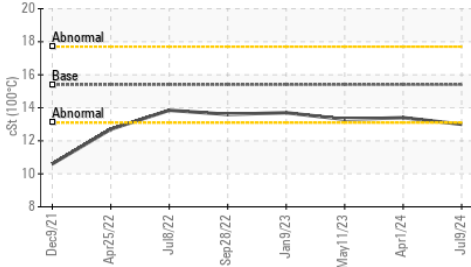
Non-ferrous Metals



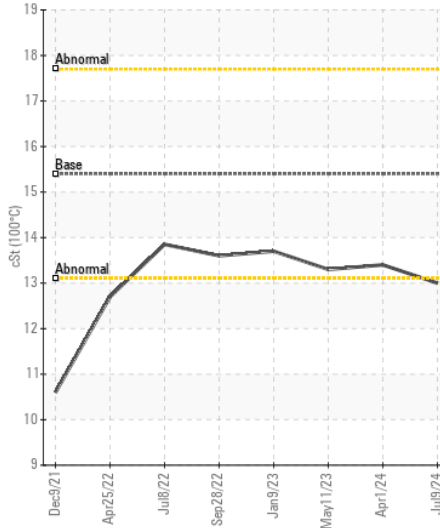
Fuel Dilution



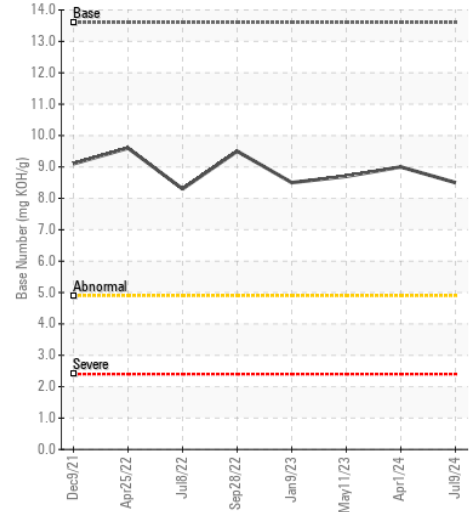
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218556 **Received** : 10 Jul 2024
Lab Number : 06232097 **Tested** : 11 Jul 2024
Unique Number : 11115590 **Diagnosed** : 11 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)