CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350OF RDT TK 40351 (S/N DT200948)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (36 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

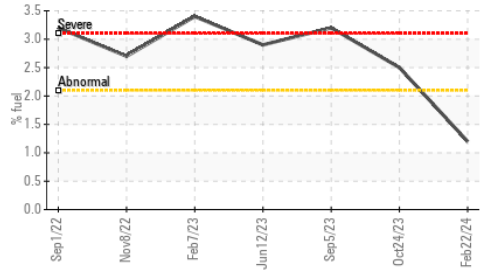
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

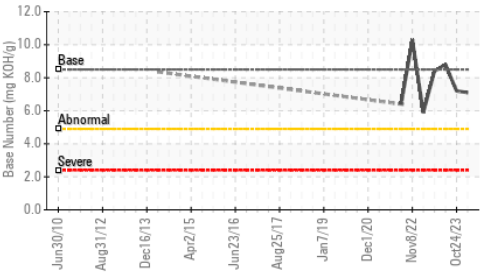
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0905325	WC0856949	WC0846509
Sample Date		Client Info		22 Feb 2024	24 Oct 2023	05 Sep 2023
Machine Age	hrs	Client Info		17177	16950	16703
Oil Age	hrs	Client Info		250	1750	1500
Filter Age	hrs	Client Info		250	1750	1500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>45	6	5	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	2	<1
Lead	ppm	ASTM D5185m	>26	<1	0	<1
Copper	ppm	ASTM D5185m	>26	<1	7	6
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	5	4	5
Potassium	ppm	ASTM D5185m	>20	0	3	2
Fuel	%	ASTM D3524	>2.1	1.2	▲ 2.5	⬢ 3.2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.0	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.7	19.5
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	2	2	1
Boron	ppm	ASTM D5185m	250	388	362	365
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	84	86	110
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	372	344	426
Calcium	ppm	ASTM D5185m	3000	1281	1376	1993
Phosphorus	ppm	ASTM D5185m	1150	943	1057	954
Zinc	ppm	ASTM D5185m	1350	1104	1155	1221
Sulfur	ppm	ASTM D5185m	4250	2945	3036	3625
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.4	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1	7.2	8.8
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.7	12.6

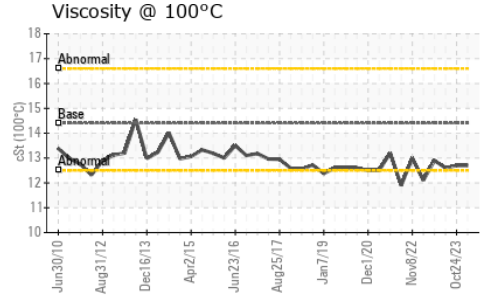
Fuel Dilution



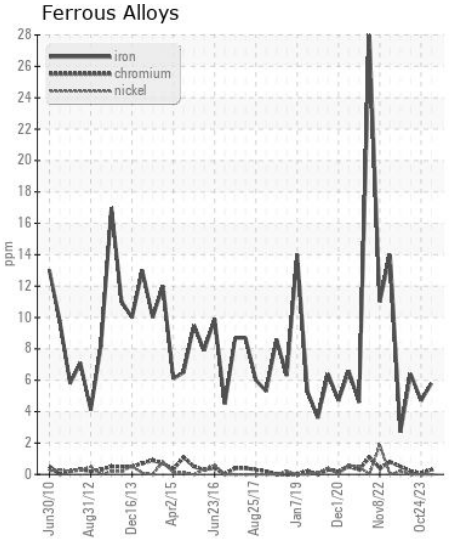
Base Number



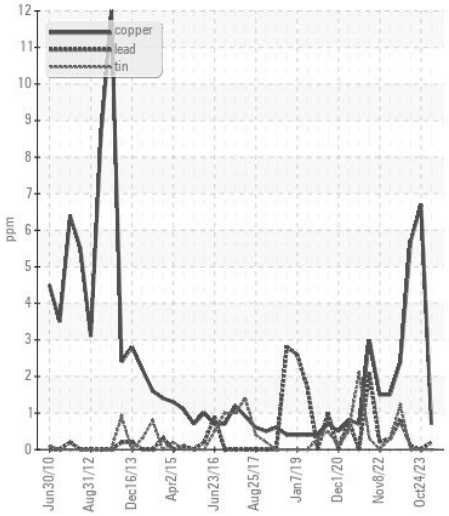
Viscosity @ 100°C



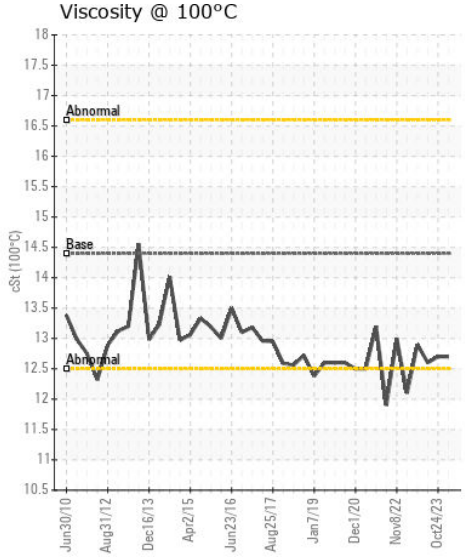
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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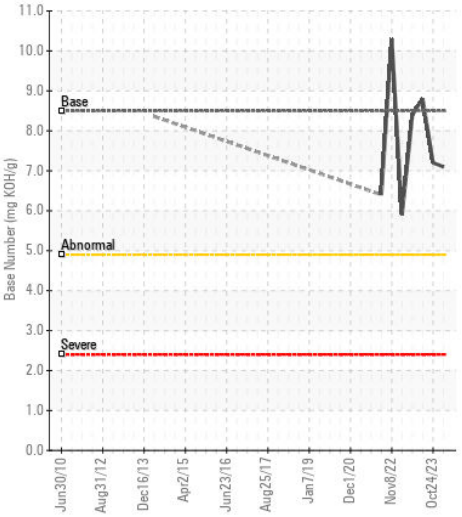

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0905325 **Received** : 26 Feb 2024
Lab Number : 06099772 **Tested** : 27 Feb 2024
Unique Number : 10898002 **Diagnosed** : 27 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: PercentFuel, 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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