



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 325G 1T0325GKCKJ366267
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208007	JR0201382	JR0185159
Sample Date		Client Info		16 Apr 2024	29 Dec 2023	29 Aug 2023
Machine Age	hrs	Client Info		3199	2908	2697
Oil Age	hrs	Client Info		291	211	201
Filter Age	hrs	Client Info		291	211	201
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	9	19	12
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	6	6
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	1	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<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.

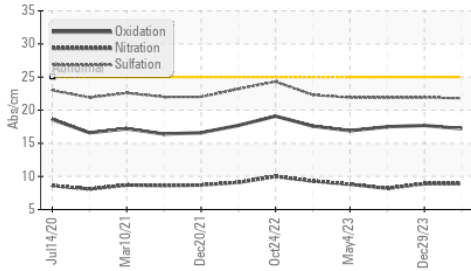
Silicon	ppm	ASTM D5185m	>22	11	15	12
Potassium	ppm	ASTM D5185m	>20	0	0	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.9	21.9
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

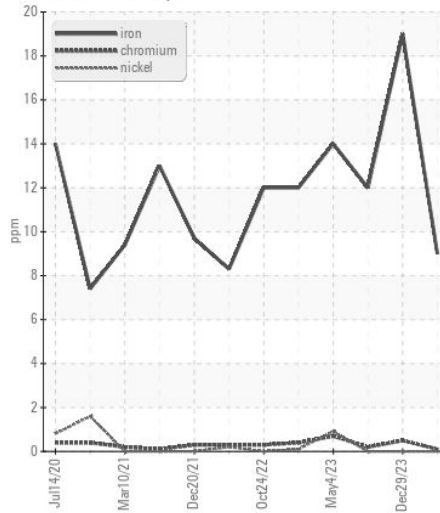
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	0	2	2
Boron	ppm	ASTM D5185m		240	192	208
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		238	220	188
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		802	811	753
Calcium	ppm	ASTM D5185m		1463	1571	1600
Phosphorus	ppm	ASTM D5185m		896	932	824
Zinc	ppm	ASTM D5185m		1073	1071	1030
Sulfur	ppm	ASTM D5185m		3277	3261	3245
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.7	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	8.7	9.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.89	13.8

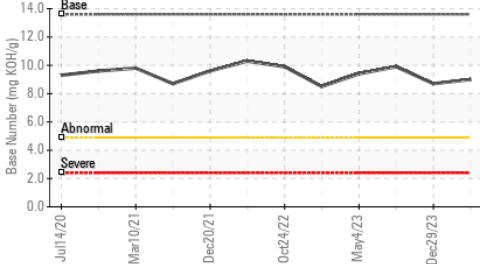
FT-IR (Direct Trend)



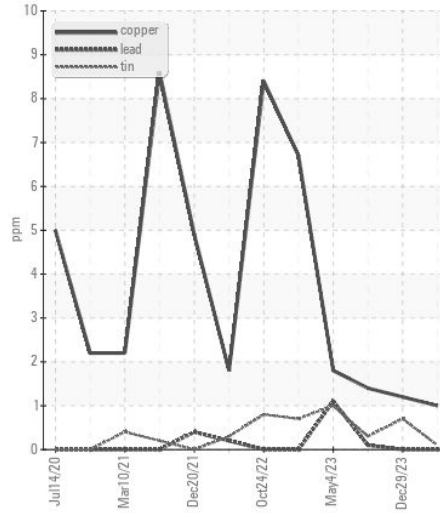
Ferrous Alloys



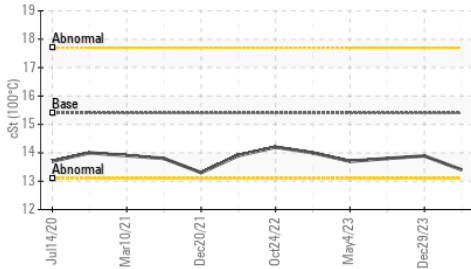
Base Number



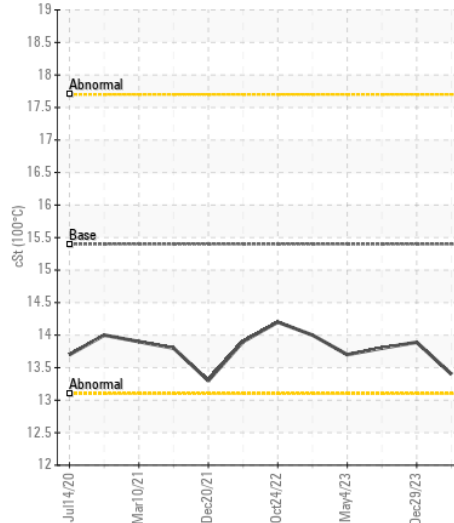
Non-ferrous Metals



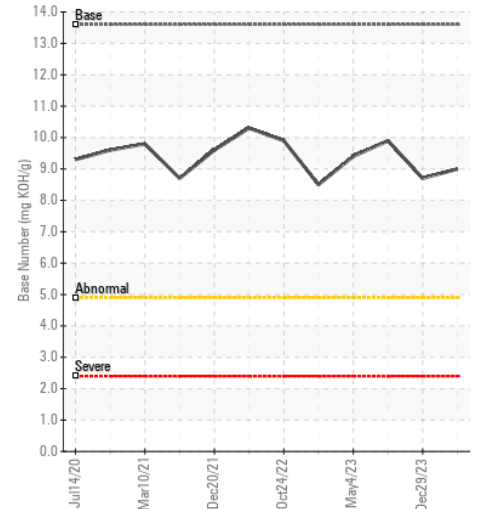
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208007 **Received** : 23 Apr 2024
Lab Number : 06158352 **Tested** : 24 Apr 2024
Unique Number : 10993775 **Diagnosed** : 24 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

TENNOCA CONSTRUCTION
 PO BOX 2379
 CANDLER, NC
 US 28715
 Contact: MARK ROSS
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 T: (828)665-8331
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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)