James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W50925]
Machine Id
JOHN DEERE 300D BE300DT201357
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W50925)

WEAR

All component wear rates are normal.

CONTAMINATION

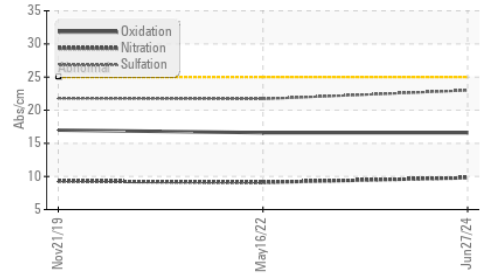
There is no indication of any contamination in the oil.

FLUID CONDITION

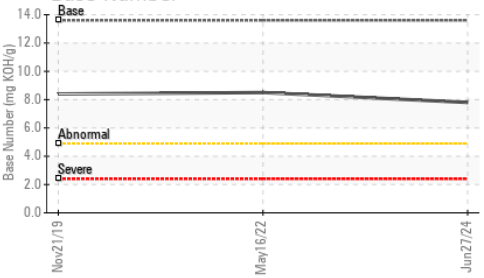
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222553	JR0130315	JR0034251
Sample Date		Client Info		27 Jun 2024	16 May 2022	21 Nov 2019
Machine Age	hrs	Client Info		11829	10825	9461
Oil Age	hrs	Client Info		1004	0	0
Filter Age	hrs	Client Info		1004	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	36	24	24
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	0	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	4	3
Lead	ppm	ASTM D5185m	>26	10	3	2
Copper	ppm	ASTM D5185m	>26	3	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	8	7	5
Potassium	ppm	ASTM D5185m	>20	<1	2	2
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	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.1	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.7	21.8
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
Sodium	ppm	ASTM D5185m	>31	2	<1	4
Boron	ppm	ASTM D5185m		107	182	109
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		170	209	88
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		567	731	396
Calcium	ppm	ASTM D5185m		1853	1597	1744
Phosphorus	ppm	ASTM D5185m		953	979	1015
Zinc	ppm	ASTM D5185m		1158	1212	1103
Sulfur	ppm	ASTM D5185m		3599	2850	1214
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.6	17
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	8.5	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	14.0

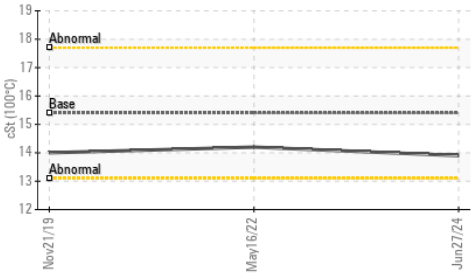
FT-IR (Direct Trend)



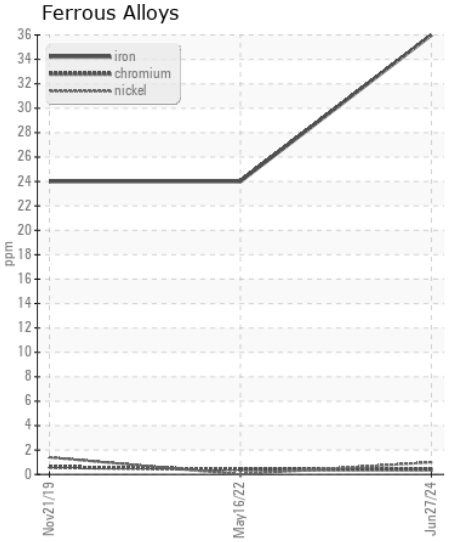
Base Number



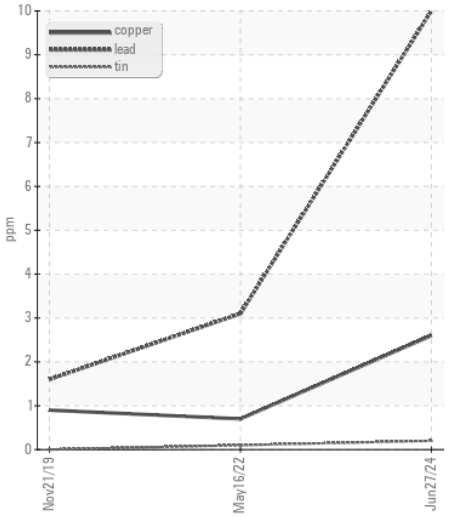
Viscosity @ 100°C



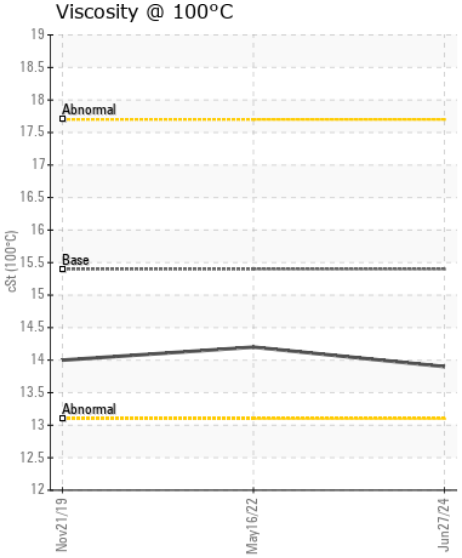
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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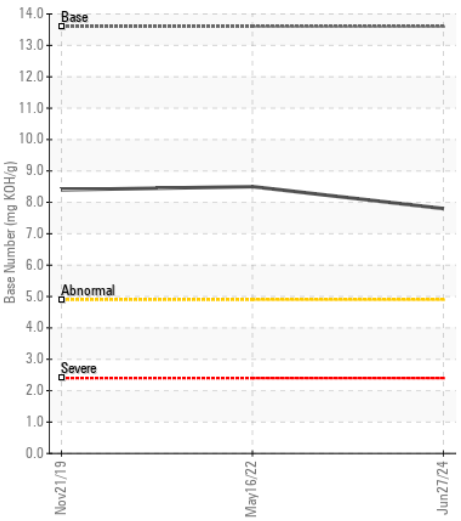

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222553
Lab Number : 06225558
Unique Number : 11103755
Test Package : CONST (Additional Tests: TBN)

Received : 01 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Don Baldridge

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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