



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[A35885]

Machine Id
JOHN DEERE 744L 1DW744LXHNL715286

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: A35885)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007600	WE0006590	WE0004878
Sample Date		Client Info		16 Jul 2024	24 Jan 2024	28 Aug 2023
Machine Age	hrs	Client Info		2507	1571	1041
Oil Age	hrs	Client Info		500	500	521
Filter Age	hrs	Client Info		500	500	521
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	5	20	27
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	▲ 12	6
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	4	4
Lead	ppm	ASTM D5185m	>26	1	1	0
Copper	ppm	ASTM D5185m	>26	2	<1	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
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.

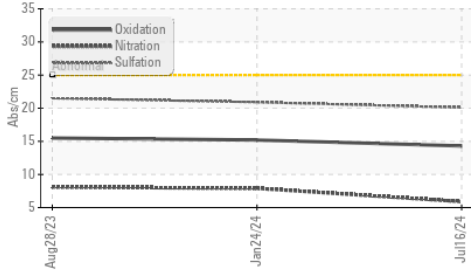
Silicon	ppm	ASTM D5185m	>22	10	7	8
Potassium	ppm	ASTM D5185m	>20	4	1	2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.9	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	20.9	21.5
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

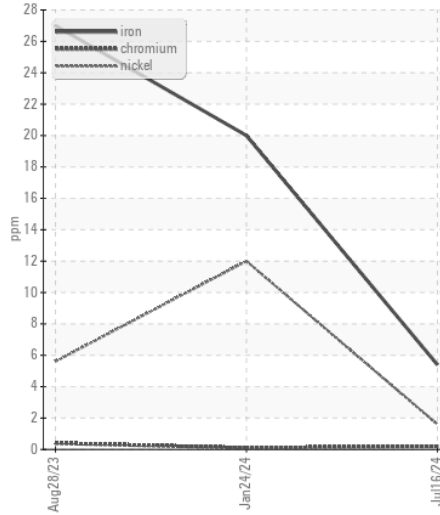
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	<1	2	2
Boron	ppm	ASTM D5185m		262	269	263
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		244	254	258
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		824	879	875
Calcium	ppm	ASTM D5185m		1427	1426	1447
Phosphorus	ppm	ASTM D5185m		909	932	933
Zinc	ppm	ASTM D5185m		1037	1106	1155
Sulfur	ppm	ASTM D5185m		3404	3118	3884
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.0	7.5	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	13.8	13.3

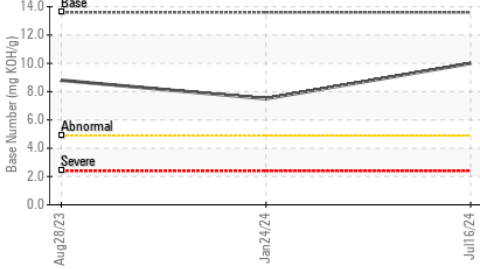
FT-IR (Direct Trend)



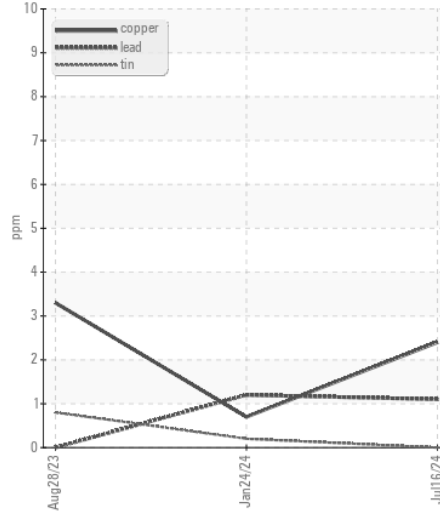
Ferrous Alloys



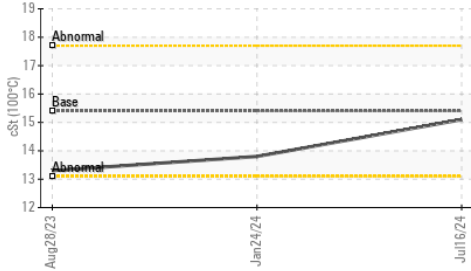
Base Number



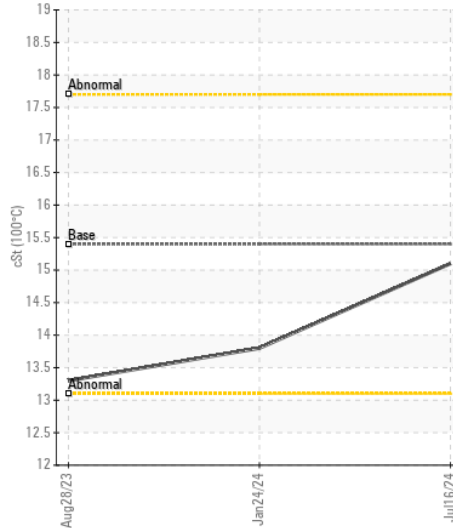
Non-ferrous Metals



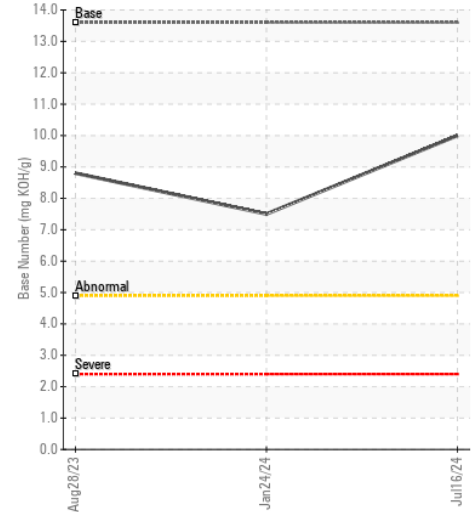
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007600 **Received** : 18 Jul 2024
Lab Number : 06239935 **Tested** : 18 Jul 2024
Unique Number : 11128769 **Diagnosed** : 19 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE
 25135 ONE AVIATION WAY SW
 MADISON, AL
 US 35756
 Contact: HERBERT STONE
 WTE013@WARRIORTRACTOR.COM

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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F: