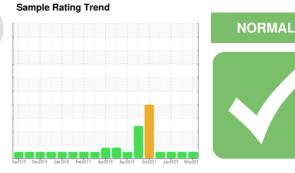


OIL ANALYSIS REPORT





Machine Id JOHN DEERE 750K 1T0750KXADE247641 Component Diesel Engine Fluid

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

SAMPLE INFORM	/AT <u>ION</u>	method				history2
Sample Number		Client Info		JR0211946	JR0165376	JR0148173
Sample Date		Client Info		06 May 2024	02 Jun 2023	13 Jan 2023
Machine Age	hrs	Client Info		8449	7969	7444
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	27	23	33
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	2	4
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	2	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m		209	138	174
Barium	ppm	ASTM D5185m		<1	3	0
Molybdenum	ppm	ASTM D5185m		242	240	261
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		747	747	854
Calcium	ppm	ASTM D5185m		1383	1383	1517
Phosphorus	ppm	ASTM D5185m		865	871	867
Zinc	ppm	ASTM D5185m		1060	1057	1091
Sulfur	ppm	ASTM D5185m		3079	2935	3427
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>22	8	6	8
Sodium	ppm	ASTM D5185m	>31	8	7	21
Potassium	ppm	ASTM D5185m	>20	7	7	14
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>3	1	1.1	1.1
Nitration	Abs/cm	*ASTM D7624		10.1	10.3	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	25.1	24.0
FLUID DEGRADA	TION	method	limit/base		history1	history
						$i \equiv 0$
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	17.0 9.2	18.5 8.7	17.9 9.4

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

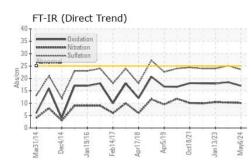
There is no indication of any contamination in the oil.

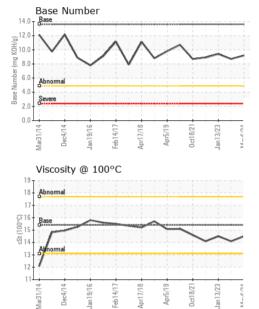
Fluid Condition

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



OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.1	14.5

GRAPHS Ferrous Alloys

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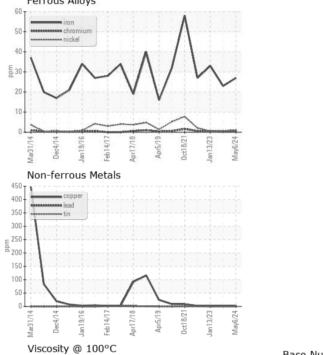
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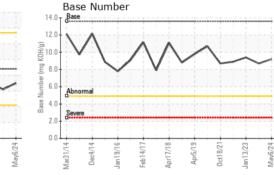
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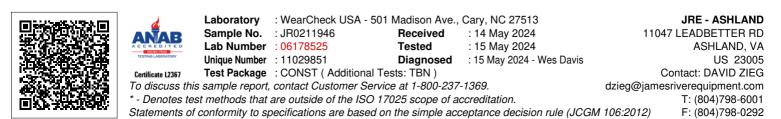
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Mar31/14

Dec4/1







Feb14/17

pr17/18 Anr5/19

Jan 19/16

Jan 13/23

Contact/Location: DAVID ZIEG - JAMASH

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