

OIL ANALYSIS REPORT

Sample Rating Trend

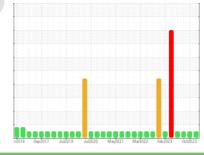
NORMAL



Area [W49982] Machine Id JOHN DEERE 824K 1DW824KXCED662971 Component

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 GAL)





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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0199703	JR0179785	JR0180218
Sample Date		Client Info		21 Feb 2024	20 Oct 2023	01 Sep 2023
Machine Age	hrs	Client Info		14501	14036	13600
Dil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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
ron	ppm	ASTM D5185m	>51	27	17	23
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	2	2
_ead	ppm	ASTM D5185m	>26	3	<1	<1
Copper	ppm	ASTM D5185m	>26	6	4	6
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	history2
Boron	ppm	ASTM D5185m		67	82	98
Barium	ppm	ASTM D5185m		2	0	0
Volybdenum	ppm	ASTM D5185m		135	137	132
Vanganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		890	910	722
Calcium	ppm	ASTM D5185m		1135	1174	1571
Phosphorus	ppm	ASTM D5185m		961	873	940
Zinc	ppm	ASTM D5185m		1202	1183	1133
Sulfur	ppm	ASTM D5185m		3424	3109	3817
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	6	5	5
Sodium	ppm	ASTM D5185m	>31	4	4	4
Potassium	ppm	ASTM D5185m	>20	3	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.2	1.3
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.9	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.3	21.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.9	14.4

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.



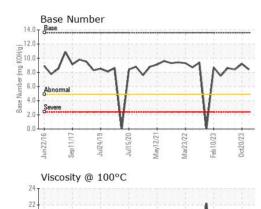
cSt (100°C)

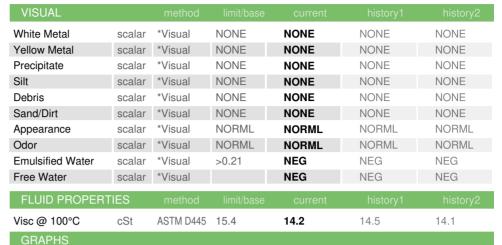
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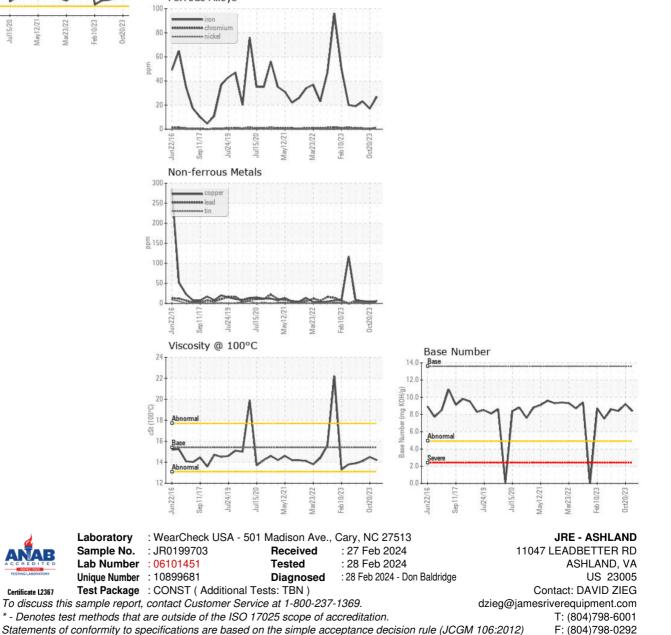
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Ferrous Alloys





Contact/Location: DAVID ZIEG - JAMASH