

Area



## [W52762 HENERSON] JOHN DEERE 624K 1DW624KZLCE649536

**Diesel Engine** 

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

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<b>RECOMMENDATION</b> Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0224891	JR0164789	JR0125300
	Sample Date		Client Info		02 Jul 2024	03 Apr 2023	28 Apr 2022
	Machine Age	hrs	Client Info		5931	5444	4956
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	<u></u>	<b>4</b> 76	<b>A</b> 279	▲ 221
	Chromium	ppm	ASTM D5185m		2	9	7
The iron level has decreased, but is still abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	▲ 10	<u> </u>
	Titanium	ppm	ASTM D5185m	20	<1	1	<1
	Silver		ASTM D5185m	-3	0	0	<1
	Aluminum	ppm ppm	ASTM D5185m		4	14	11
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		1	5	5
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	~7	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		304141	VISUAI	THOME		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12	<b>5</b> 3	<b>4</b> 39
There is no indication of any contamination in the oil.	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	0.5	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.3	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.9	24.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	3	3
	Boron	ppm	ASTM D5185m		210	193	201
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.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		254	241	238
	Manganese	ppm	ASTM D5185m		<1	3	3
	Magnesium	ppm	ASTM D5185m		858	846	844
	Calcium	ppm	ASTM D5185m		1614	1507	1466
	Phosphorus	ppm	ASTM D5185m		983	910	939
	Zinc	ppm	ASTM D5185m		1136	1092	1098
	Sulfur	ppm	ASTM D5185m		3670	3464	2845
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	16.1	17.8
	Base Number (BN)				8.5	8.5	9.7
	Vice @ 100%C	oC+		45.4	10.0	10.7	10.4

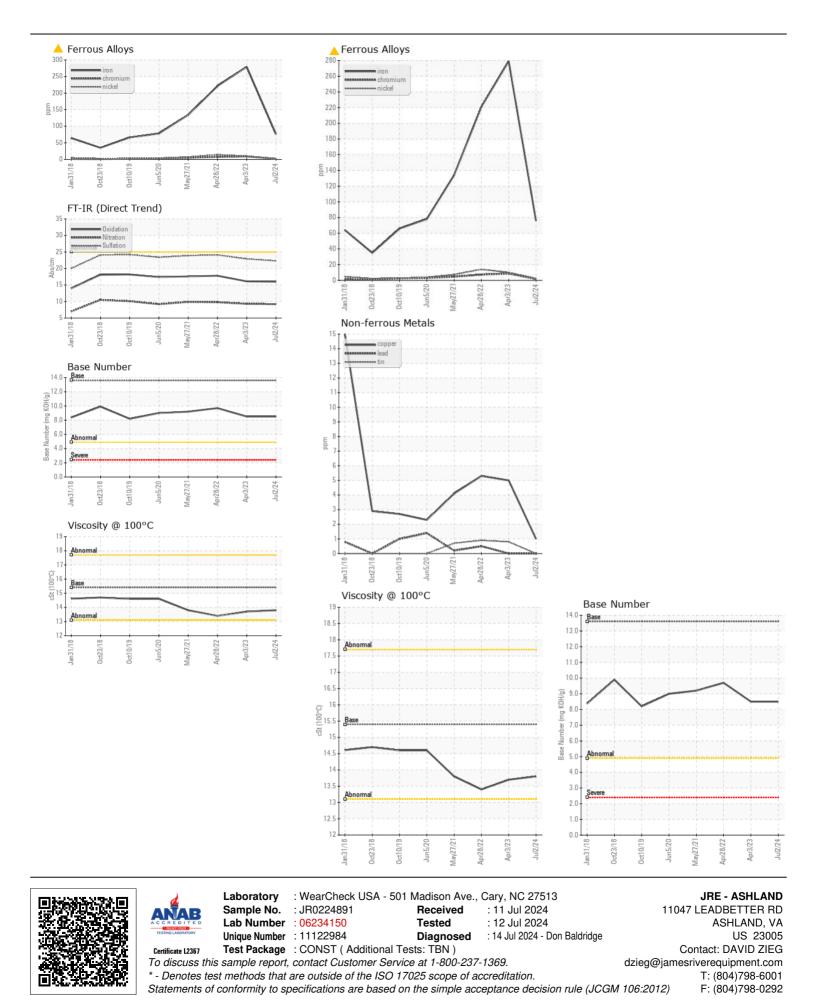
Visc @ 100°C cSt

ASTM D445 15.4

13.7

13.4

13.8



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Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2