

[W66430]

JOHN DEERE 624P 1DW624PAPMLZ11868

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

JUHN DEERE ENGINE UIL PLUS 50 II 15W40 (J GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0205478	JR0203396	JR0188957
Resample at the next service interval to monitor. (Customer Sample Comment: W66430)	Sample Date		Client Info		09 May 2024	18 Feb 2024	10 Oct 2023
	Machine Age	hrs	Client Info		4626	4294	3658
	Oil Age	hrs	Client Info		332	636	178
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	7	11	7
	Chromium	ppm	ASTM D5185m	>11	0	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	5	2
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	0	1	1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	6	6
OONTAILINATION	Potassium	ppm	ASTM D5185m		2	3	2
There is no indication of any contamination in the oil.	Fuel	lelerri	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624		8.2	8.8	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	22.1	19.5
	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	Sodium	ppm	ASTM D5185m	>31	2	3	0
	Boron	ppm	ASTM D5185m		265	216	240
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		246	239	239
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		818	848	713
	Calcium	ppm	ASTM D5185m		1402	1441	1223
	Phosphorus	ppm	ASTM D5185m		931	878	824
	Zinc	ppm	ASTM D5185m		1062	1058	940
	Sulfur	ppm	ASTM D5185m		3422	3038	2736
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.5	14.1
	Base Number (BN)	mg KOH/g			8.7	8.4	8.7
		01		45.4		10.0	10.0

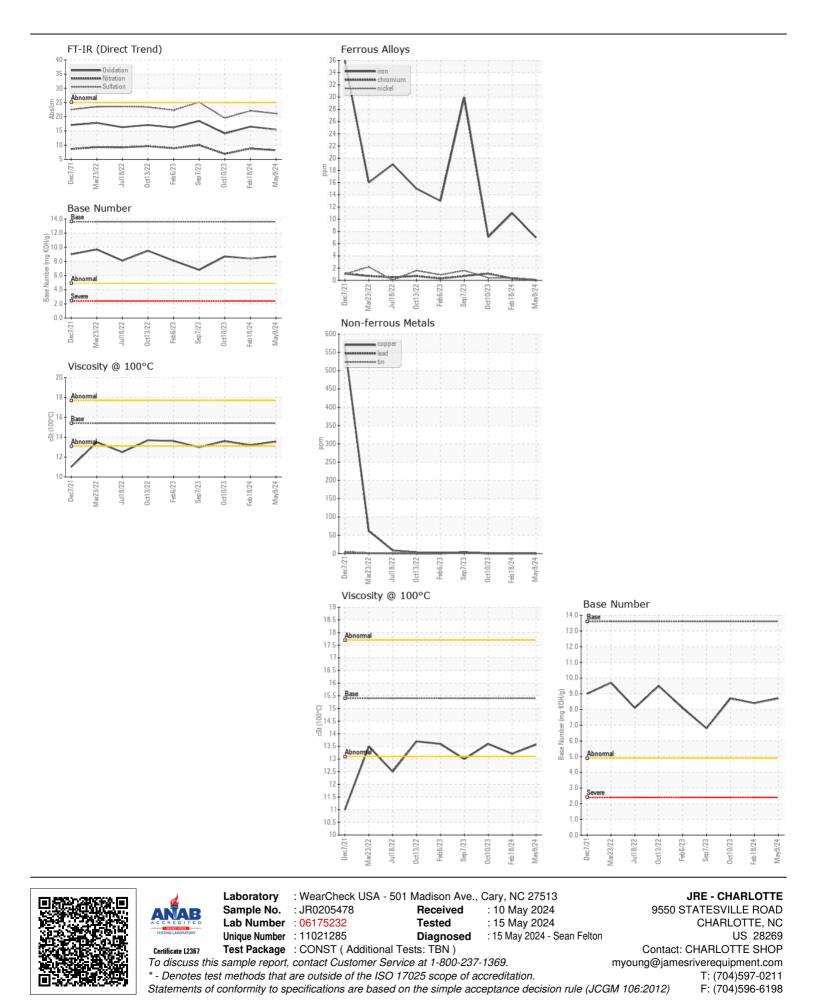
Visc @ 100°C cSt

ASTM D445 15.4

13.2

13.6

13.57



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