

## [W64497] Machine Id **1E CAT8924KJPWR03917** Component Diesel Engine

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

	J GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: W64497 )	Sample Number		Client Info		JR0198064		
	Sample Date		Client Info		22 Feb 2024		
	Machine Age	hrs	Client Info		13244		
	Oil Age	hrs	Client Info		13244		
	Filter Age	hrs	Client Info		13244		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	33		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		10		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0:1:				•		
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		8 4		
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3105III		- <1.0		
	Water	70	WC Method		NEG		
	Glycol		WC Method	20.L	NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.3		
	Sulfation	Abs/.1mm	*ASTM D7415		21.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Codium				4		
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		4 50		
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		2		
	Molybdenum	ppm	ASTM D5185m		2 45		
	Manganese	ppm	ASTM D5185m		45 1		
	Magnesium	ppm	ASTM D5185m		469		
	Calcium	ppm	ASTM D5185m		1389		
	Phosphorus	ppm ppm	ASTM D5185m		863		
	Zinc		ASTM D5185m		1035		
	Sulfur	ppm	ASTM D5185m		2982		
	Oxidation	ppm Abs/.1mm	*ASTM D5185111 *ASTM D7414	>25	2982		
	Base Number (BN)		ASTM D7414 ASTM D2896		8.30		
		nig KUR/g	A01101 D2030	15.0	0.30		

Visc @ 100°C cSt ASTM D445 15.4

12.8



