

Area



JOHN DEERE 544K 1DW544KZPFE669951

Component Diesel Engine

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

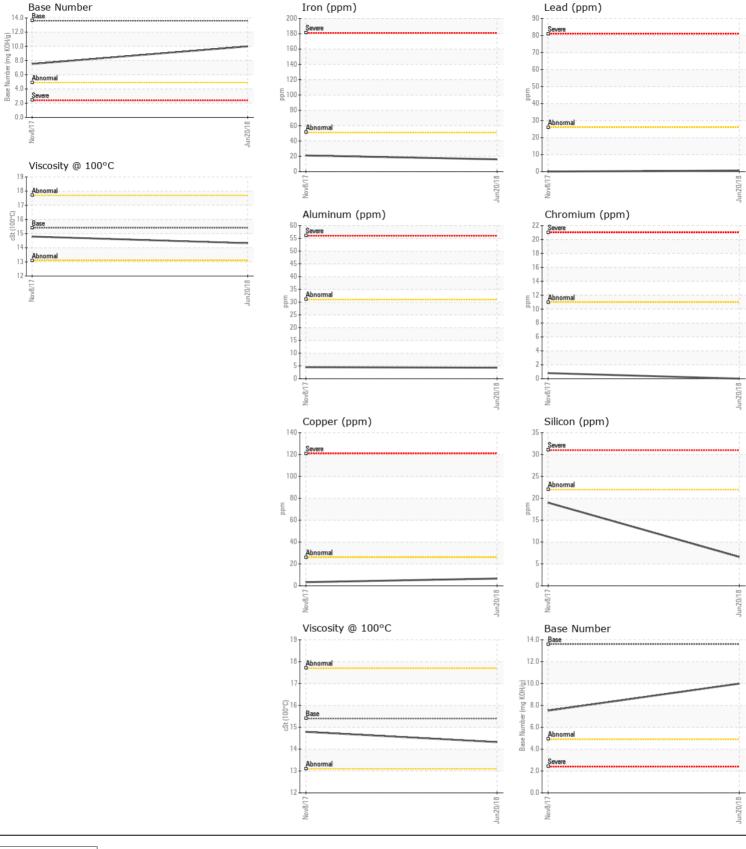
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JRMC460107	JRMC445287	
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Jun 2018	08 Nov 2017	
	Machine Age	hrs	Client Info		2639	2070	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		16	21	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>5	1	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>31	4	4	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>26	7	3	
	Tin	ppm	ASTM D5185m	>4	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Ciliana			00	7	10	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	19	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		1	4	
			WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.4	
	Nitration	Abs/cm	*ASTM D7624	>25	7.	10. 25.	
	Sulfation	Abs/.1mm	*ASTM D7415		19.		
	Silt Debris	scalar	*Visual	NONE	NONE NONE	NONE NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE	NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.21	NEG	NEG	
		scalar	visual	>0.21	NEG	NEG	
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.	Sodium	ppm	ASTM D5185m	>31	9	6	
	Boron	ppm	ASTM D5185m		122	95	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		224	235	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		756	803	
	Calcium	ppm	ASTM D5185m		1404	1546	
	Phosphorus	ppm	ASTM D5185m		694	806	
	Zinc	ppm	ASTM D5185m		977	1002	
	Sulfur	ppm	ASTM D5185m		2570	2722	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.	20.	
	Base Number (BN)				9.99	7.52	
		y.comy				1.4 =0	

Visc @ 100°C cSt

14.32

14.79

ASTM D445 15.4



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: SERVICE MANAGER ? - CAPRALJR

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