

[W66478] HITACHI 1FFDC571LNF341038

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205843	JR0167569	
	Sample Date		Client Info		23 Apr 2024	17 May 2023	
	Machine Age	hrs	Client Info		892	444	
	Oil Age	hrs	Client Info		500	444	
	Filter Age	hrs	Client Info		500	444	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron		ASTM D5185m	> 100	27	26	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	<1	
	Nickel	ppm	ASTM D5185m		، <1	<1	
	Titanium	ppm	ASTM D5185m	>4	<1	0	
	Silver	ppm	ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		10	7	
		ppm					
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		1 3	1	
	Tin	ppm	ASTM D5185m		3	7	
	Vanadium	ppm	ASTM D5185m	>15	3 <1	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
					NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	16	▲ 33	
	Potassium	ppm	ASTM D5185m	>20	4	6	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	16.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
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FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		284	183	
	Barium	ppm	ASTM D5185m		3	<1	
	Molybdenum	ppm	ASTM D5185m		236	<1	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m		744	16	
	Calcium	ppm	ASTM D5185m		1483	2292	
	Phosphorus	ppm	ASTM D5185m		881	1075	
	Zinc	ppm	ASTM D5185m		1060	1347	
	Sulfur	ppm	ASTM D5185m	05	3155	3624	
	Oxidation	Abs/.1mm	*ASTM D7414		14.3	9.4	
	()	v v	ASTM D2896		8.9	9.1	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.0	



