

[SPARTAN RENTAL] Hachine Id HAMM H12iP H284.0289 (S/N WGH0H284VAA00289)

Diesel Engine

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

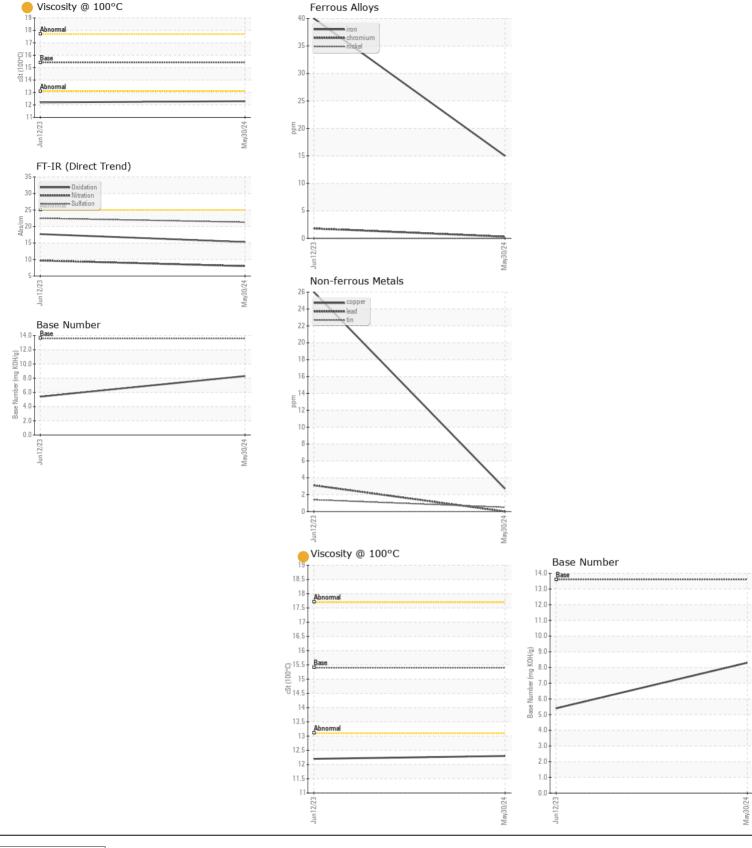
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (*	FINI)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214599	JR0176073	
	Sample Date		Client Info		30 May 2024	12 Jun 2023	
	Machine Age	hrs	Client Info		1473	805	
	Oil Age	hrs	Client Info		1473	805	
	Filter Age	hrs	Client Info		1473	805	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	15	40	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		5	5	
	Lead	ppm	ASTM D5185m		0	3	
	Copper	ppm	ASTM D5185m		3	26	
	Tin	ppm	ASTM D5185m		۰ <1	1	
	Vanadium	ppm	ASTM D5185m	210	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	24	
There is no indication of any contamination in the oil	Potassium	ppm	ASTM D5185m	>20	0	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	0.2	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	22.5	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	
	Boron	ppm	ASTM D5185m		234	54	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1	2	
	Molybdenum	ppm	ASTM D5185m		195	86	
	Manganese	ppm	ASTM D5185m		<1	3	
	Magnesium	ppm	ASTM D5185m		685	257	
	Calcium	ppm	ASTM D5185m		1713	2137	
	Phosphorus	ppm	ASTM D5185m		997	1003	
	Zinc	ppm	ASTM D5185m		1177	1306	
	Sulfur	ppm	ASTM D5185m		3619	4866	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	17.7	
	Base Number (BN)				8.3	5.4	

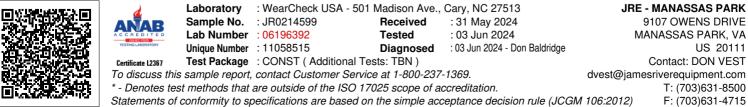
Visc @ 100°C cSt

12.2

12.3

ASTM D445 15.4





Contact/Location: DON VEST - JAMMAN Page 2 of 2