

[BASHFUL LOGGING] Machine Id JOHN DEERE 643K 1DW643KXCFC666327

Diesel Engine

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

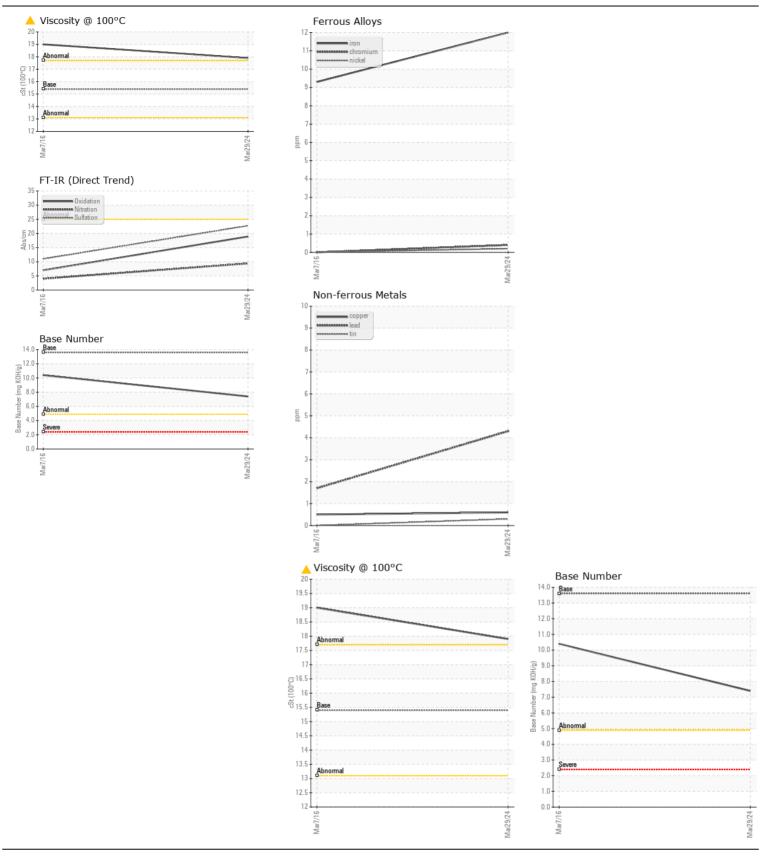
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00IVI	Client Info	LINUAUI	JR0177128	,	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		29 Mar 2024	07 Mar 2016	
	Machine Age	hrs	Client Info		9522	1460	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1113	Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				MARGINAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	12	9	
	Chromium	ppm	ASTM D5185m	>11	<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	3	4	
	Lead	ppm	ASTM D5185m		4	2	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m	>4	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	3	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	5	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	4.	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	11.	
	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	>0.21	NEG	NEG	
FLUID CONDITION	C a divura			0.1	4	4	
	Sodium	ppm	ASTM D5185m	>31	<1	4	
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m		160	188	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		188	217	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		652	727	
	Calcium	ppm	ASTM D5185m		1431	1179	
	Phosphorus	ppm	ASTM D5185m		915	688	
	Zinc	ppm	ASTM D5185m		1033	874	
	Sulfur	ppm	ASTM D5185m		4069	2410	
	Oxidation	Abs/.1mm	*ASTM D7414		18.9	7.	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.4	10.40	
	Vier @ 10000	- 0+		4 - 4			

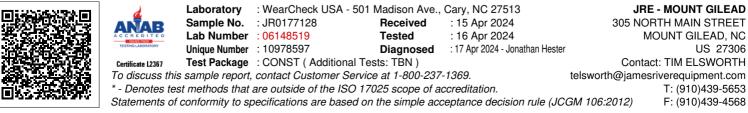
Visc @ 100°C cSt

ASTM D445 15.4

19.00

17.9





Contact/Location: TIM ELSWORTH - JAMMOUJR