

Machine Id KLEEMANN KT80-2 Y1840001

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THEODIMINICIND ATTOM	Sample Number	00101	Client Info	LINUTUR	JR0208999	JR0214258	
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		24 Apr 2024	24 Apr 2024	
	Machine Age	hrs	Client Info		6496	5994	
	Oil Age	hrs	Client Info		500	500	
	Filter Age	hrs	Client Info		500	500	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	SEVERE	
VEAR	Iron	ppm	ASTM D5185m	>100	17	9	
	Chromium	ppm	ASTM D5185m		1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		5	5	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>330	1	0	
	Tin	ppm	ASTM D5185m	>15	1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	11	
There is a high amount of fuel present in the oil. There is a light amount of solids and carbon present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	
	Fuel	%	ASTM D3524	>5	12.4	1 2.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.9	1.5	
	Nitration	Abs/cm	*ASTM D7624	>20	15.5	14.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.6	24.7	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	
	Boron	ppm	ASTM D5185m		202	198	
Fuel is present in the oil and is lowering the viscosity (considering soot). The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		2	<1	
	Molybdenum	ppm	ASTM D5185m		222	211	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		701	729	
	Calcium	ppm	ASTM D5185m		1217	1261	
	Phosphorus	ppm	ASTM D5185m		736	803	
	Zinc	ppm	ASTM D5185m		906	950	
	Sulfur	ppm	ASTM D5185m		2837	2914	
		AL		05		0.4.4	

Oxidation

Visc @ 100°C cSt

10.1

24.1

12.4

28.2

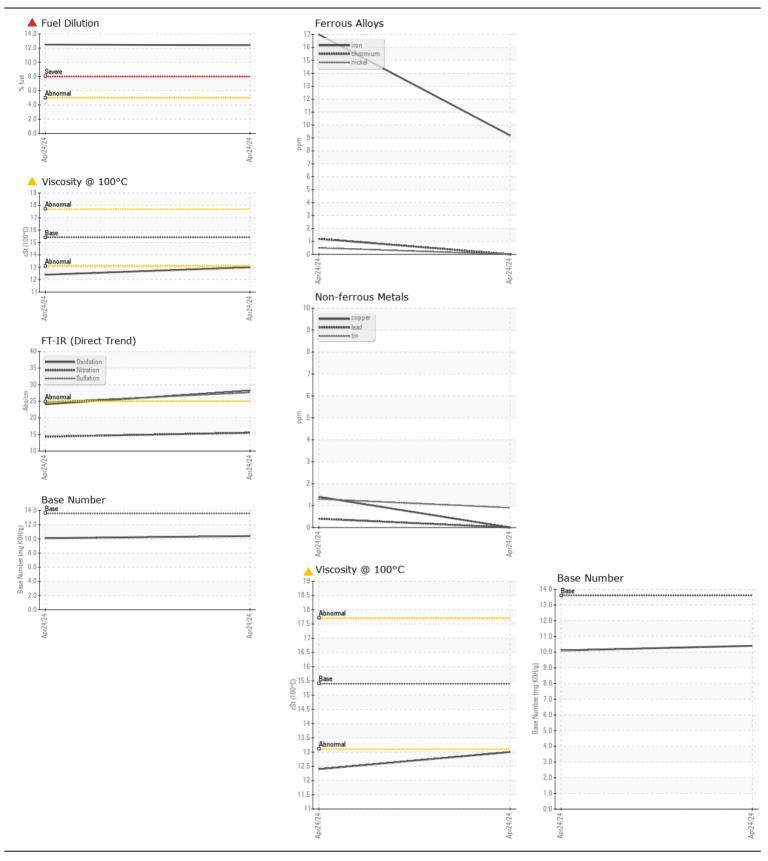
10.4

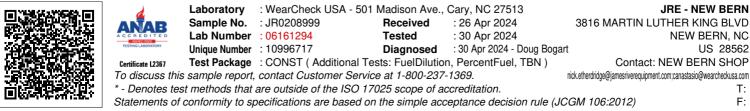
13.0

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6





Submitted By: Dylan Sanderson Page 2 of 2