

Area

[W25827]

WEAR **ABNORMAL** NORMAL CONTAMINATION **FLUID CONDITION** NORMAL



JOHN DEERE 650K 1T0650KKPJF344840

Component Diesel Engine

{not provided} (--- GAL)

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		JR0051206		
	Sample Date		Client Info		07 May 2020		
	Machine Age	hrs	Client Info		490		
	Oil Age	hrs	Client Info		490		
	Filter Age	hrs	Client Info		490		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		38		
The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	11		
	Lead	ppm	ASTM D5185m	>26	10		
	Copper	ppm	ASTM D5185m	>26	🔺 175		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	10.2		
	Sulfation	Abs/.1mm			25.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor Emulsified Water	scalar	*Visual	NORML	NORML		
	Emuisined water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
	Boron	ppm	ASTM D5185m		115		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		248		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		885		
	Calcium	ppm	ASTM D5185m		1901		
	Phosphorus	ppm	ASTM D5185m		952		
	Zinc	ppm	ASTM D5185m		1139		
		PP'''					

Base Number (BN) mg KOH/g ASTM D2896

ppm ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ASTM D445

Sulfur

Oxidation

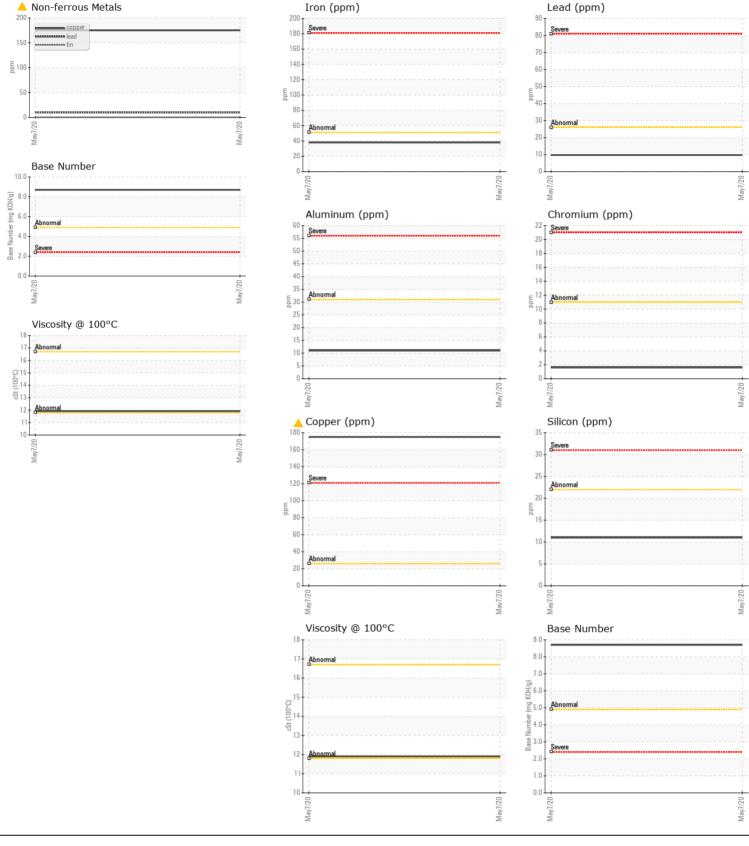
Visc @ 100°C cSt

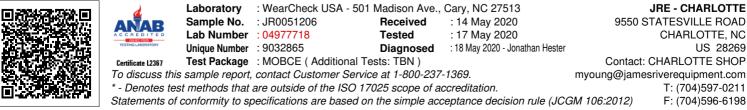
2628

21.1

8.7

11.9





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