

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

## [W65773] JOHN DEERE 325G 1T0325GKAPJ455595 **Diesel Engine**

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 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. ( Customer Sample Comment: W65773 )	Sample Number		Client Info		JR0206810		
	Sample Date		Client Info		18 Apr 2024		
	Machine Age	hrs	Client Info		539		
	Oil Age	hrs	Client Info		539		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Iron	nnm	ASTM D5185m	<u>51</u>	37		
	Chromium	ppm	ASTM D5185m		37 <1		
	Nickel	ppm ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>5	0		
	Silver		ASTM D5185m	23	ہ <1		
	Aluminum	ppm ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		▲ 79		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	~1	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	42		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	9.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	nnm	ACTM DE105m	. 01	10		
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.	Boron	ppm	ASTM D5185m ASTM D5185m	>01	12 232		
	Barium	ppm	ASTM D5185m ASTM D5185m		232 5		
		ppm					
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		234 2		
	-	ppm	ASTM D5185m				
	Magnesium Calcium	ppm	ASTM D5185m		727 1766		
	Phosphorus	ppm	ASTM D5185m		928		
	Zinc	ppm	ASTM D5185m		928 1131		
	Sulfur	ppm	ASTM D5185m		3425		
	Oxidation	ppm	*ASTM D5185111	>25	3425 23.7		
	Oxidation	Abs/.1mm	ASTIVI D7414	>20	23.1		

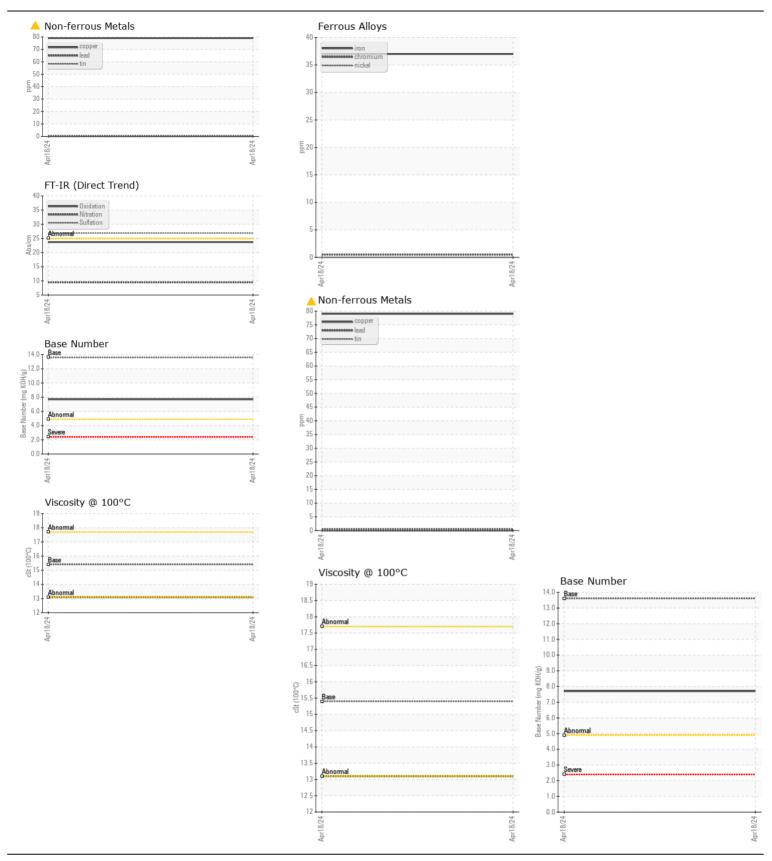
Base Number (BN) mg KOH/g ASTM D2896 13.6

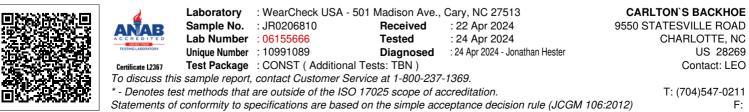
ASTM D445 15.4

Visc @ 100°C cSt

7.70

13.1





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