

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL



Machine Id John Deere 650J 650J-3 (S/N 1T0650JXVBD204237) onen

Hydraulic System DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TLY0002442	TLY0001784	
	Sample Date		Client Info		22 May 2024	16 Aug 2023	
	Machine Age	hrs	Client Info		12047	11607	
	Oil Age	hrs	Client Info		11607	1607	
	Filter Age	hrs	Client Info		11607	1607	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>23	28	21	
	Chromium	ppm	ASTM D5185m		18	14	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	20	1	2	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	<u>_9</u>	10	9	
	Lead		ASTM D5185m	>28	<1	2	
		ppm	ASTM D5185m		33	29	
	Copper	ppm					
	Tin Vanadium	ppm	ASTM D5185m	>5	0	<1	
		ppm	ASTM D5185m	NONE	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	23	18	
	Potassium	ppm	ASTM D5185m	>20	4	6	
The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.075	NEG	NEG	
	Particles >4µm		ASTM D7647	>80000	29464		
	Particles >6µm		ASTM D7647	>20000	964		
	Particles >14µm		ASTM D7647	>640	18		
	Particles >21µm		ASTM D7647	>160	3		
	Particles >38µm		ASTM D7647	>40	0		
	Particles >71µm		ASTM D7647	>10	0		
	Oil Cleanliness		ISO 4406 (c)		22/17/11		
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.075	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	5	
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		55	54	
	Barium	ppm		10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	31	29	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	320	294	
	Calcium	ppm	ASTM D5185m	3000	2377	2008	
	Phosphorus	ppm	ASTM D5185m	1150	1007	890	
	Zinc	ppm	ASTM D5185m	1350	1147	1067	

Sulfur

ppm ASTM D5185m 4250

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 115

4190

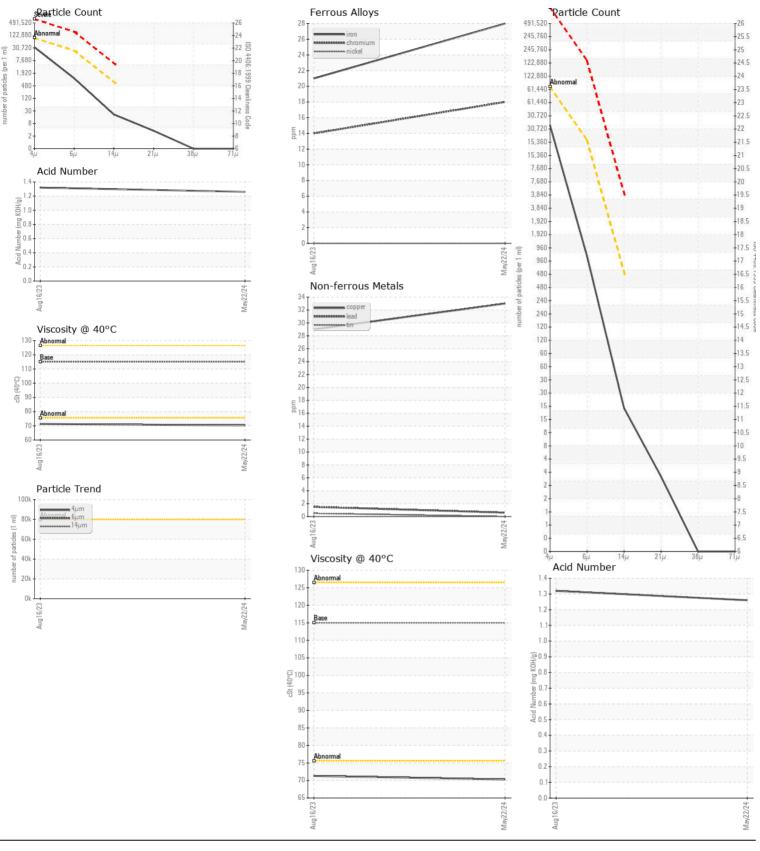
71.3

1.32

4415

1.26

70.3





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