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1241 ----

44.88 ----

Machine Id JOHN DEERE 50G 1FF050GXAKH291948 Component **Hydraulic System** HITACHI HYDRAULIC SUPER EX 46HN (14 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212171	JR0136984	
	Sample Date		Client Info		28 May 2024	12 Jul 2022	
	Machine Age	hrs	Client Info		2377	1896	
	Oil Age	hrs	Client Info		500	1896	
	Filter Age	hrs	Client Info		500	1896	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
					40	05	
WEAR	PQ		ASTM D8184		16	25	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		3	5	
	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	0	1	0	
	Aluminum	ppm	ASTM D5185m		1	1	
	Lead	ppm	ASTM D5185m		<1	1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m	>5	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>_11</u>	2	1	
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	<1	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		3956	24928	
	Particles >6µm		ASTM D7647		802	5656	
	Particles >14µm		ASTM D7647		44	337	
	Particles >21µm		ASTM D7647	>160	12	94	
	Particles >38µm		ASTM D7647		1	5	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		19/17/13	22/20/16	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	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	
		Scala	Visual	20.075		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	0	
	Boron	ppm	ASTM D5185m		0	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	2	
	Molybdenum	ppm	ASTM D5185m		<1	<1	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		3	8	
	Calcium	ppm	ASTM D5185m		0	10	
	Phosphorus	ppm	ASTM D5185m	827	406	330	
	Zinc	ppm	ASTM D5185m		37	45	
	0.11		AOTH DELOS	10	-	10.11	

0.15

581

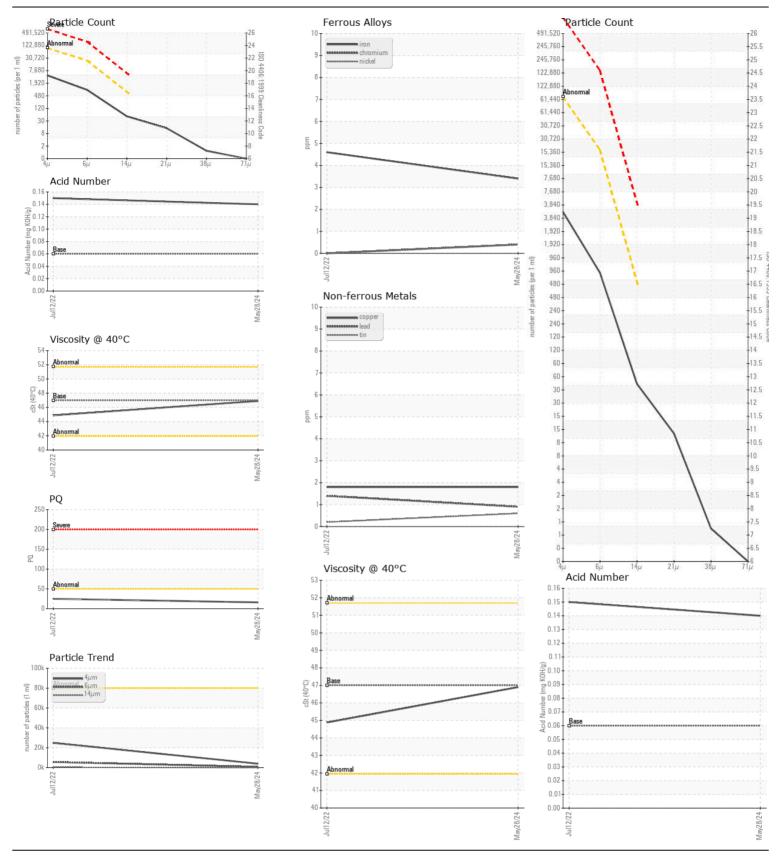
0.14

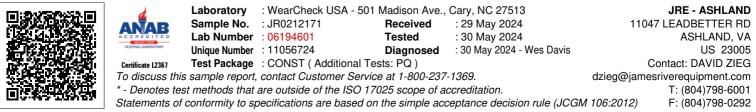
46.9

Sulfur ppm ASTM D5185m 13

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47





Submitted By: TECHNICIAN ACCOUNT Page 2 of 2