

Machine Id JOHN DEERE 1FF350GXVKF814250 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. Oil and filter change at the time of sampling has been noted.



All component wear rates are normal.

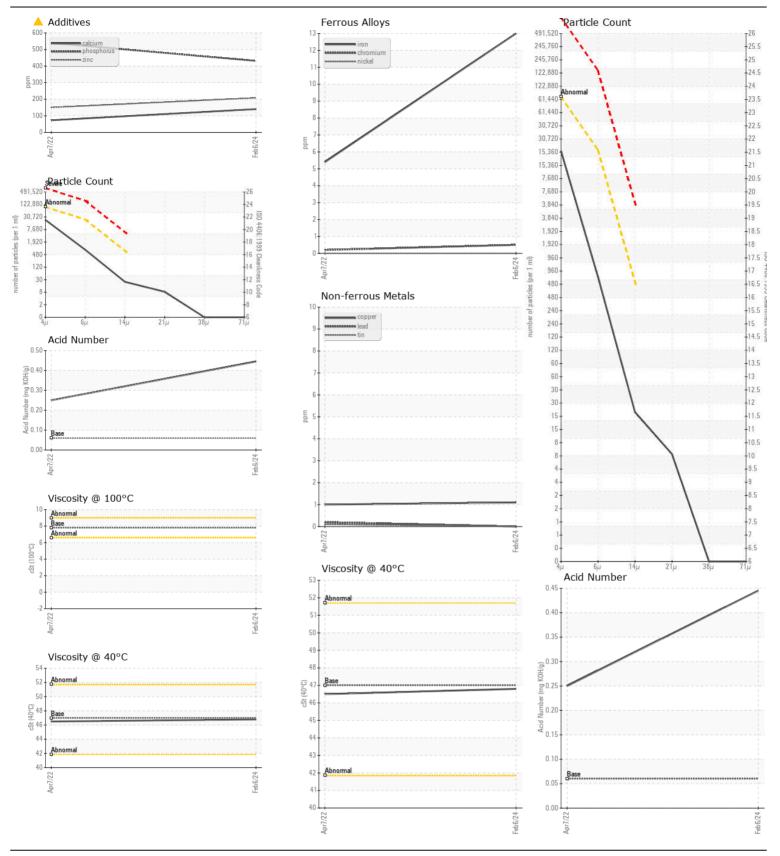
CONTAMINATION

The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195854	JR0126454	
Sample Date		Client Info		06 Feb 2024	07 Apr 2022	
Machine Age	hrs	Client Info		6877	4113	
Oil Age	hrs	Client Info		1000	0	
Filter Age	hrs	Client Info		1000	0	
Oil Changed		Client Info		Changed	Not Changd	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184	>50	14	18	
Iron	ppm	ASTM D5185m	>32	13	5	
Chromium	ppm	ASTM D5185m	>9	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>9	2	2	
Lead	ppm	ASTM D5185m	>28	0	<1	
Copper	ppm	ASTM D5185m	>50	1	1	
Tin	ppm	ASTM D5185m	>5	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon		ASTM D5185m	>11	E	0	
Potassium	ppm	ASTM D5185m		5 2	2	
Water	ppm	WC Method	>20	∠ NEG	NEG	
Particles >4µm		ASTM D7647		19485	8577	
Particles >4µm		ASTM D7647 ASTM D7647	>20000	724	1146	
Particles >14µm		ASTM D7647	>640	21	50	
Particles >21µm		ASTM D7647	>160	7	8	
Particles >38µm		ASTM D7647		0	0	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/17/12	20/17/13	
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	>0.075	NEG	NEG	
Sodium	ppm	ASTM D5185m	>21	2	0	
Boron	ppm	ASTM D5185m		3	1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		6	1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		46	11	
Calcium	ppm	ASTM D5185m		140	73	
Phosphorus	ppm	ASTM D5185m	827	431	539	
Zinc	ppm	ASTM D5185m	0	A 208	🔺 150	
Sulfur	ppm	ASTM D5185m	13	582	378	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.445	0.25	
Visc @ 40°C	cSt	ASTM D445	47	46.8	46.5	



TOTAL DEVELOPMENT SOLUTIONS LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回論習 GY: 🗖 : JR0195854 7805 PROGRESS CT Sample No. Received : 23 Feb 2024 : 06098903 : 29 Feb 2024 GAINESVILLE, VA Lab Number Tested : 29 Feb 2024 - Jonathan Hester US 20155 Unique Number : 10897133 Diagnosed Test Package : CONST (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, PQ, PrtCount, TAN MAN, TBN, Wohntact: JOE SEALE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (571)220-7763 F: (703)753-4586 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JOE SEALE - TOTGAIJR