

[W22666-HOWELTON] JOHN DEERE 135G 1FF135GXCMF502977

Hydraulic System

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.



All component wear rates are normal.

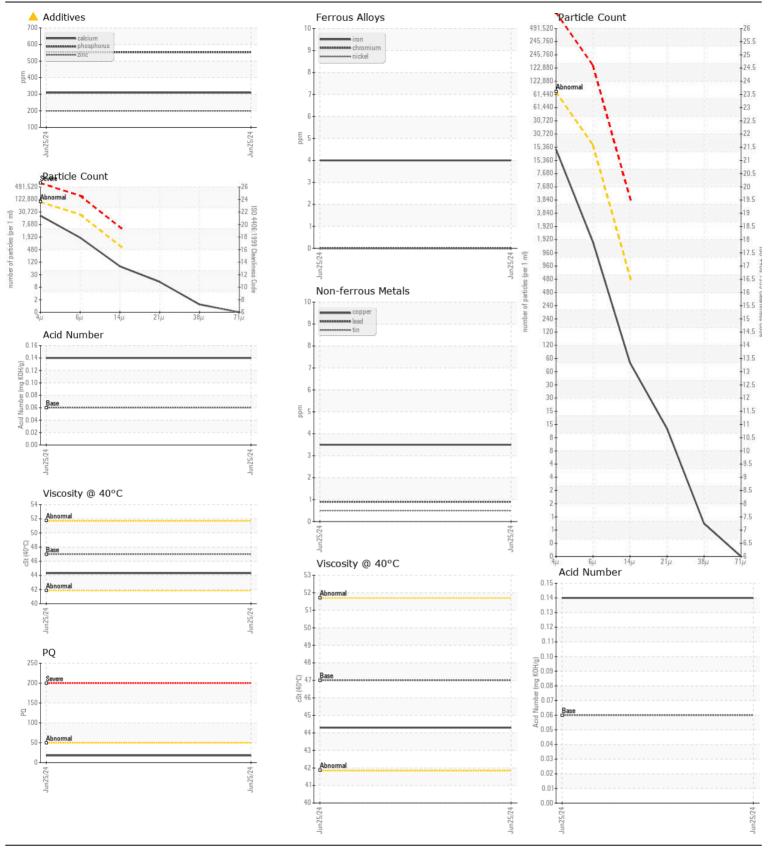
CONTAMINATION

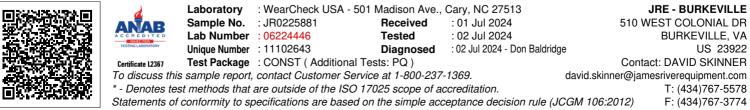
The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225881		
Sample Date		Client Info		25 Jun 2024		
Machine Age	hrs	Client Info		431		
Oil Age	hrs	Client Info		431		
Filter Age	hrs	Client Info		431		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
PQ		ASTM D8184	>50	18		
Iron	ppm	ASTM D5185m	>32	4		
Chromium	ppm	ASTM D5185m	>9	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	1		
Lead	ppm	ASTM D5185m	>28	<1		
Copper	ppm	ASTM D5185m	>50	4		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>11	4		
Potassium	ppm	ASTM D5185m	>20	3		
Water		WC Method	>0.075	NEG		
Particles >4µm		ASTM D7647	>80000	17850		
Particles >6µm		ASTM D7647	>20000	1578		
Particles >14µm		ASTM D7647	>640	67		
Particles >21µm		ASTM D7647	>160	12		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/18/13		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.075	NEG		
Sodium	ppm	ASTM D5185m	>21	1		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		27		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		309		
Phosphorus	ppm	ASTM D5185m	827	553		
Zinc	ppm	ASTM D5185m	0	🔺 199		
Sulfur	ppm	ASTM D5185m	13	656		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.14		
Visc @ 40°C	cSt	ASTM D445	47	44.3		





Contact/Location: DAVID SKINNER - JAMBUR Page 2 of 2