WEAR CONTAMINATION FLUID CONDITION

NORMAL ATTENTION NORMAL

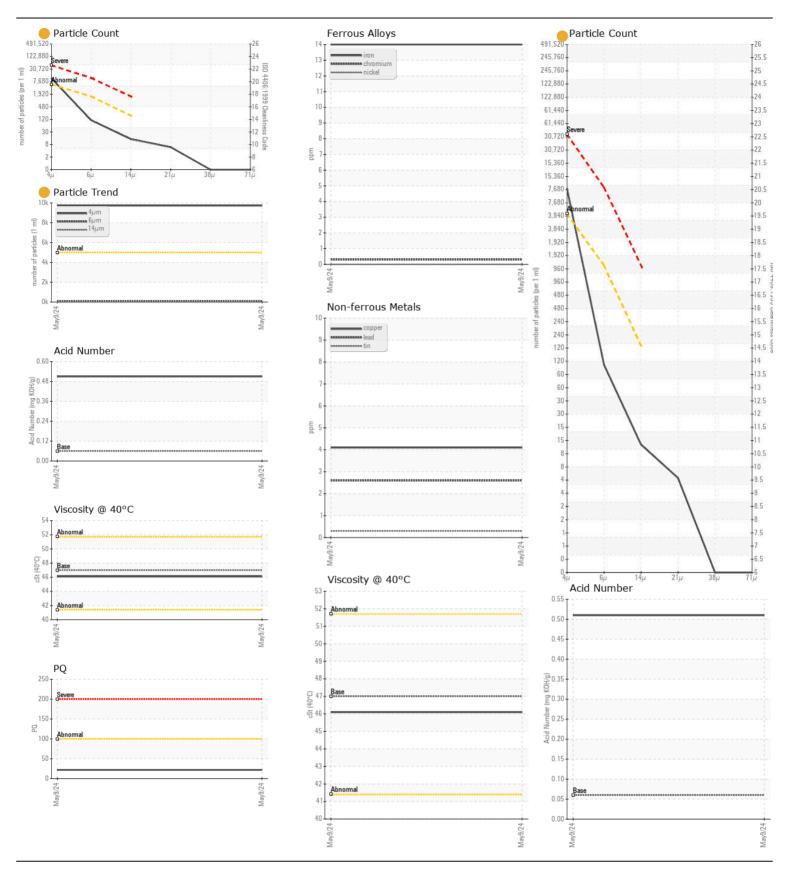
[W8860]

HAMM HD120IVVHF H3040035

Hydraulic System

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (--- GAL)

JUHN DEEKE ZING-FREE HYDRAULIG OIL 46 (\						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Initial 50 hour service Work order 8860)	Sample Number		Client Info		JR0197227		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		117		
	Oil Age	hrs	Client Info		117		
	Filter Age	hrs	Client Info		117		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	PQ		ASTM D8184		22		
WEAR	Iron	ppm	ASTM D5185m	>20	14		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	2		
	Lead	ppm	ASTM D5185m	>10	3		
	Copper	ppm	ASTM D5185m	>75	4		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTANUNATION	Ciliana		ACTM DE10E	00	4		
CONTAMINATION	Silicon	ppm	ASTM D5185m ASTM D5185m		4 1		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium Water	ppm	WC Method		NEG		
	Particles >4µm		ASTM D7647		9734		
	Particles >6µm		ASTM D7647		97		
	Particles >14µm		ASTM D7647		12		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/14/11		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
TEGID CONDITION	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		57		
	Calcium	ppm	ASTM D5185m		13		
	Phosphorus	ppm	ASTM D5185m		294		
	Zinc	ppm	ASTM D5185m		343		
	Sulfur	ppm	ASTM D5185m		858		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.51		





Certificate L2367

Unique Number : 11021402

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0197227 : 06175349

Received

Tested Diagnosed Test Package : MOBCE (Additional Tests: PQ)

: 10 May 2024 : 13 May 2024 : 13 May 2024 - Don Baldridge

JRE - HOPE MILLS/FAYETTEVILLE 5039 HWY 301 SOUTH

HOPE MILLS, NC US 28348

F:

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Contact: FAYETTEVILLE SHOP To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.