WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Machine Id

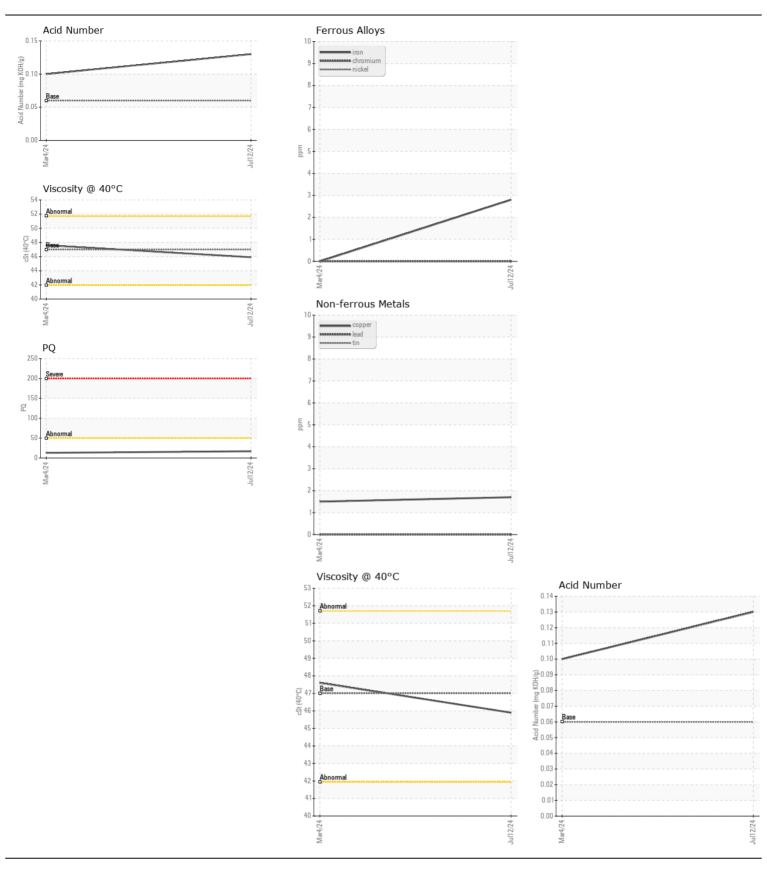
JOHN DEERE 350P 1FF350PAHPF001031

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

MITACHI MYDRAULIC SUPER EX 46HN (GAL	-)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THE COMMENTATION	Sample Number		Client Info		JR0224405	JR0199930	
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. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Date		Client Info		12 Jul 2024	04 Mar 2024	
	Machine Age	hrs	Client Info		976	434	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				ABNORMAL	NORMAL	
WEAR	PQ		ASTM D8184		17	13	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		3	0	
	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	0	0	0	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m	>5	0	0	
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		scalar	vioudi	NONE	INOINE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	0	
	Potassium	ppm	ASTM D5185m	>20	0	0	
Moderate concentration of visible dirt/debris present in the oil.	Water		WC Method	>0.075	NEG	NEG	
	Particles >4µm		ASTM D7647	>80000		2160	
	Particles >6µm		ASTM D7647	>20000		393	
	Particles >14μm		ASTM D7647	>640		28	
	Particles >21μm		ASTM D7647			7	
	Particles >38μm		ASTM D7647			0	
	Particles >71μm		ASTM D7647			0	
	Oil Cleanliness		ISO 4406 (c)			18/16/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	▲ MODER	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\21	1	0	
TEGID CONDITION	Boron	ppm	ASTM D5185m	/LI	0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		2	10	
	Calcium	ppm	ASTM D5185m		1	26	
	Phosphorus	ppm	ASTM D5185m	827	541	551	
	Zinc	ppm	ASTM D5185m		16	32	
	Sulfur	ppm	ASTM D5185m		112	103	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.13	0.10	
	Visc @ 40°C	cSt	ASTM D445		45.9	47.6	

Contact/Location: DAVID ZIEG - JAMASH







Certificate L2367

Laboratory Sample No.

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

Lab Number : 06239059 Unique Number : 11127893

: JR0224405 Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 18 Jul 2024 : 18 Jul 2024 - Don Baldridge

: 17 Jul 2024

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292 Contact/Location: DAVID ZIEG - JAMASH