WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

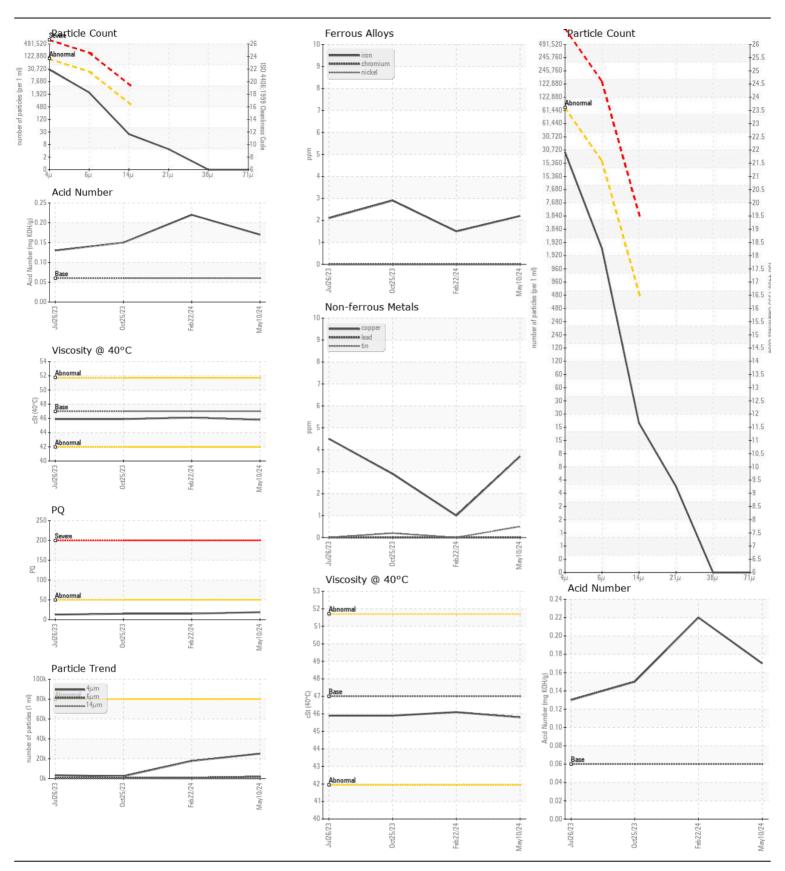
[05W46516]

JOHN DEERE 350P 1FF350PALPF000489

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (220 QTS)

HITACHI HYDRAULIC SUPER EX 46HN (220 (رد ا عالی ا				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214356	JR0202979	JR0192226
	Sample Date		Client Info		10 May 2024	22 Feb 2024	25 Oct 2023
	Machine Age	hrs	Client Info		2020	1493	941
	Oil Age	hrs	Client Info		2020	1493	941
	Filter Age	hrs	Client Info		1000	552	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	19	15	15
	Iron	ppm	ASTM D5185m	>32	2	2	3
	Chromium	ppm	ASTM D5185m	>9	0	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>9	0	0	0
	Lead	ppm	ASTM D5185m	>28	0	0	0
	Copper	ppm	ASTM D5185m	>50	4	1	3
	Tin	ppm	ASTM D5185m	>5	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	1	<1	1
	Potassium	ppm	ASTM D5185m	>20	0	0	<1
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4μm		ASTM D7647		25207	17739	2449
	Particles >6μm		ASTM D7647		2025	891	685
	Particles >14μm		ASTM D7647		21	10	98
	Particles >21μm		ASTM D7647		4	3	31
	Particles >38μm		ASTM D7647		0	1	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		22/18/12	21/17/10	18/17/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORM!
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
		Scalai	Visuai	>0.075		INLG	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	1	0	2
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m		0	<1	0
	Calcium	ppm	ASTM D5185m	00=	1	2	2
	Phosphorus	ppm	ASTM D5185m		525	518	458
	Zinc	ppm	ASTM D5185m		5	18	31
	Sulfur	ppm	ASTM D5185m		90	79	109
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.17	0.22	0.15
	Visc @ 40°C	cSt	ASTM D445	47	45.8	46.1	45.9





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06177035

: JR0214356

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Unique Number : 11023088 Test Package : CONST (Additional Tests: PQ)

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024

: 14 May 2024 - Don Baldridge

US 20136 Contact: DANNY HUFF dhuff@bandssite.com T: (540)270-3203

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE

* - 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) BRISTOW, VA

F: (703)753-0605