WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

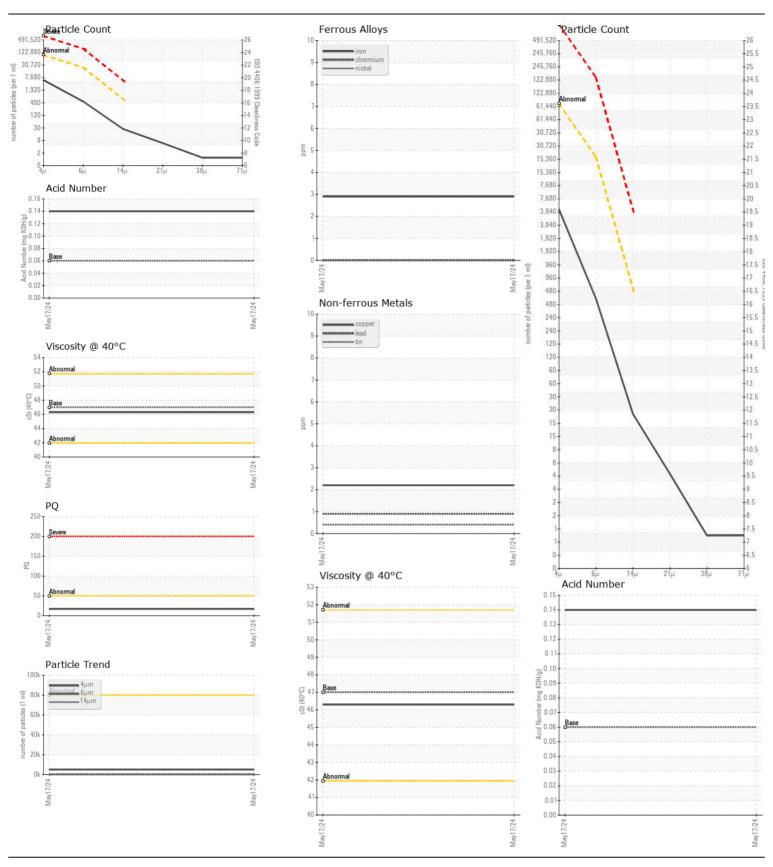
Machine Id

JOHN DEERE 470P 1FF470PAJNF000062

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0005841		
	Sample Date		Client Info		17 May 2024		
	Machine Age	hrs	Client Info		432		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
A/E A D	DO		ASTM D8184	. 50	17		
WEAR	PQ Iron	nnm	ASTM D5185m		17 3		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	70	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>9	0		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		- <1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		1		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4μm		ASTM D7647		5083		
	Particles >6µm		ASTM D7647		490		
	Particles >14µm		ASTM D7647		24		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647 ASTM D7647		1		
	Particles >71μm Oil Cleanliness		ISO 4406 (c)		20/16/12		
	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			>0.075	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1		
The AN level is acceptable for this first. The condition of the cities	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		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		1		
	Phosphorus	ppm	ASTM D5185m		558		
	Zinc	ppm	ASTM D5185m		28		
	Sulfur	ppm	ASTM D5185m		168		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.14		
	Visc @ 40°C	cSt	ASTM D445	4/	46.3		





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0005841 : 06186049

Unique Number : 11042801

Received **Tested** Diagnosed

: 21 May 2024 : 22 May 2024 : 23 May 2024 - Don Baldridge

P.O. BOX 412 NORTHPORT, AL US 35476 Contact: CRAIG ANDOE

Test Package : CONST (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

serve01@warriortractor.com T: (205)339-0300

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT

* - 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)

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