

WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



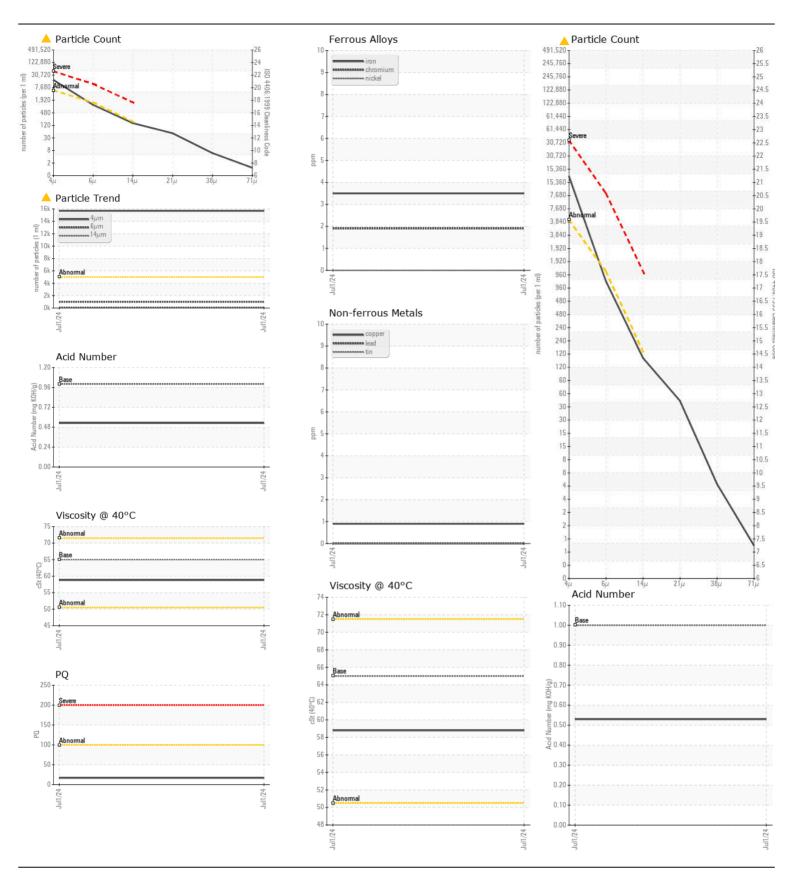
[127448]

JOHN DEERE 644P 1DW644PAPNLZ13910

Hydraulic System

JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter sharps at the time of according has been noted Ma	Sample Number		Client Info		WE0007934		
The filter change at the time of sampling has been noted. We	Sample Date		Client Info		01 Jul 2024		
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		641		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		17		
All component week rates are narmal	Iron	ppm	ASTM D5185m		4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>75	<1		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		1		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		<u> </u>		
	Particles >6µm		ASTM D7647		1002		
	Particles >14μm		ASTM D7647	>160	135		
	Particles >21μm		ASTM D7647		44		
	Particles >38μm		ASTM D7647	>10	5		
	Particles >71μm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/17/14		
	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	>0.1	NEG		
ELUID CONDITION	C = = :=		ACTM DE10E		_		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The AN level is acceptable for this fluid. The oil is still serviceable	Boron	ppm	ASTM D5185m		<1		
provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		2		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m	0.7	6		
	Calcium	ppm	ASTM D5185m		101		
	Phosphorus	ppm		727	518		
	Zinc	ppm	ASTM D5185m	900	648		
	Sulfur	ppm	ASTM D5185m		1630		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.53		
	Visc @ 40°C	cSt	ASTM D445	65	58.8		





Certificate L2367

Unique Number: 11110823

Laboratory Sample No. Lab Number

: WE0007934 : 06227330

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

: 03 Jul 2024 **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 05 Jul 2024 : 05 Jul 2024 - Wes Davis

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL US 35476

Contact: CRAIG ANDOE serve01@warriortractor.com

T: (205)339-0300

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)

Report Id: WARNOR [WUSCAR] 06227330 (Generated: 07/09/2024 15:54:42) Rev: 1

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