WEAR CONTAMINATION FLUID CONDITION

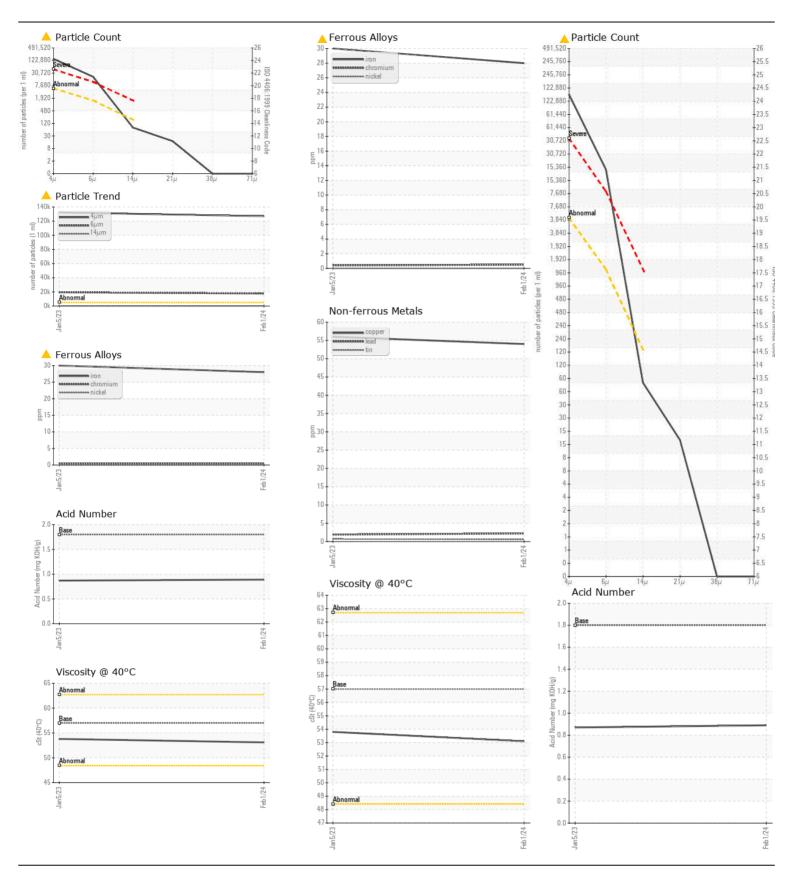
MARGINAL ABNORMAL NORMAL

[W00223-HALLGRING]

JOHN DEERE 5055E 34002118 (S/N 1PY5055EAJJ107064)

Component **Hydraulic System**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.	Sample Number	JOIVI	Client Info		JR0159087	JR0148804	
	Sample Date		Client Info		01 Feb 2024	05 Jan 2023	
	Machine Age	hrs	Client Info		215	168	
	Oil Age	hrs	Client Info		215	168	
	Filter Age	hrs	Client Info		215	168	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
VEAR	PQ		ASTM D8184		20	22	
TEAL	Iron	ppm	ASTM D5185m	>20	A 28	△ 30	
The iron level is abnormal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	1	2	
	Lead	ppm	ASTM D5185m	>10	2	2	
	Copper	ppm	ASTM D5185m	>75	54	56	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	9	8	
	Potassium	ppm	ASTM D5185m	>20	0	3	
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	<u> </u>	<u>▲</u> 132256	
	Particles >6µm		ASTM D7647	>1300	17639	<u> </u>	
	Particles >14μm		ASTM D7647	>160	67	39	
	Particles >21μm		ASTM D7647		15	8	
	Particles >38μm		ASTM D7647		0	1	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u>4</u> 24/21/13	<u>4</u> 24/21/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML NEG	NORML NEG	
	Emulsified Water	Scalai	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		9	6	
	Boron	ppm	ASTM D5185m	6	82	93	
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Barium	ppm	ASTM D5185m	0	1	3	
	Molybdenum	ppm	ASTM D5185m	0	0	<1	
	Manganese	ppm	ASTM D5185m		3	3	
	Magnesium	ppm	ASTM D5185m	145	28	25	
	Calcium	ppm		3570	3108	3406	
	Phosphorus	ppm	ASTM D5185m	1290	967	1077	
	Zinc	ppm	ASTM D5185m	1640	1306	1327	
	Sulfur	ppm	ASTM D5185m		8174	8695	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.89	0.87	
	Visc @ 40°C	cSt	ASTM D445	57.0	53.1	53.8	





Laboratory Sample No.

Lab Number : 06085358

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0159087

Received **Tested** Unique Number : 10872803

: 09 Feb 2024 Diagnosed

: 12 Feb 2024 : 12 Feb 2024 - Doug Bogart JRE - DILLWYN 284 MAIN ST DILLWYN, VA US 23936

Test Package : CONST (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: MIKE FALVELLA mike.falvella@jamesriverequipment.com T: (434)983-1633

Contact/Location: MIKE FALVELLA - JAMDILVA

* - 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)