CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[T&T LOGGING]
Machine Id
JOHN DEERE 748L 1DW748LBTKF695311
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

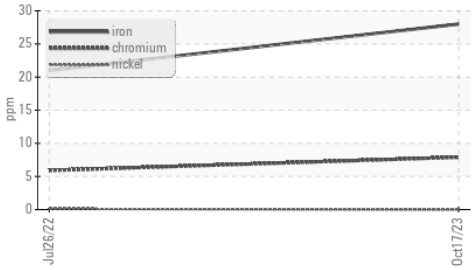
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

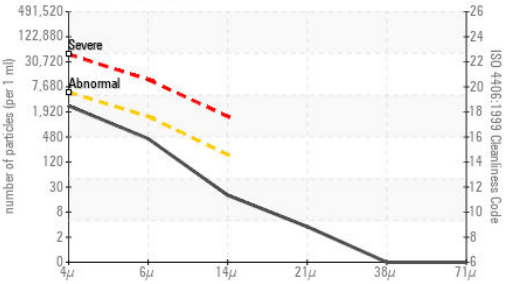
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0165186	JR0139030	---
Sample Date		Client Info		17 Oct 2023	26 Jul 2022	---
Machine Age	hrs	Client Info		4902	3123	---
Oil Age	hrs	Client Info		0	3123	---
Filter Age	hrs	Client Info		0	1000	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
PQ		ASTM D8184		15	13	---
Iron	ppm	ASTM D5185m	>20	▲ 28	▲ 21	---
Chromium	ppm	ASTM D5185m	>10	8	6	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	3	3	---
Lead	ppm	ASTM D5185m	>10	<1	<1	---
Copper	ppm	ASTM D5185m	>75	4	5	---
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	---
Silicon	ppm	ASTM D5185m	>20	9	7	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	2353	9046	---
Particles >6µm		ASTM D7647	>1300	384	2281	---
Particles >14µm		ASTM D7647	>160	17	108	---
Particles >21µm		ASTM D7647	>40	3	17	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	20/18/14	---
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	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		4	1	---
Boron	ppm	ASTM D5185m		36	6	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		28	<1	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		86	2	---
Calcium	ppm	ASTM D5185m	87	332	226	---
Phosphorus	ppm	ASTM D5185m	727	694	592	---
Zinc	ppm	ASTM D5185m	900	879	834	---
Sulfur	ppm	ASTM D5185m	1500	1886	2003	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.74	---	---
Visc @ 40°C	cSt	ASTM D445	65	58.6	---	---

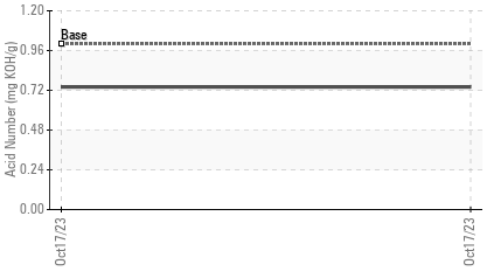
Ferrous Alloys



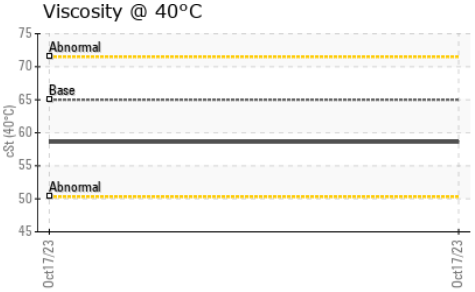
Particle Count



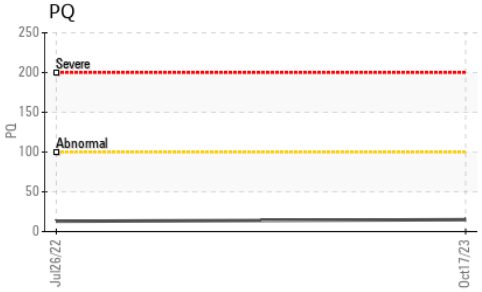
Acid Number



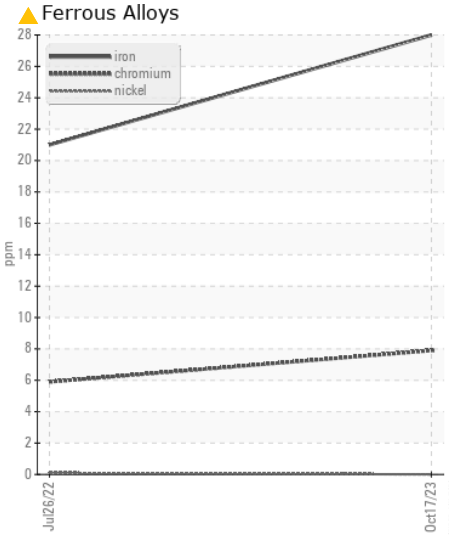
Viscosity @ 40°C



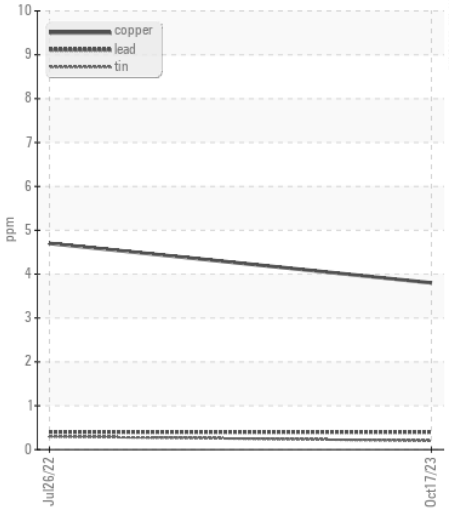
PQ



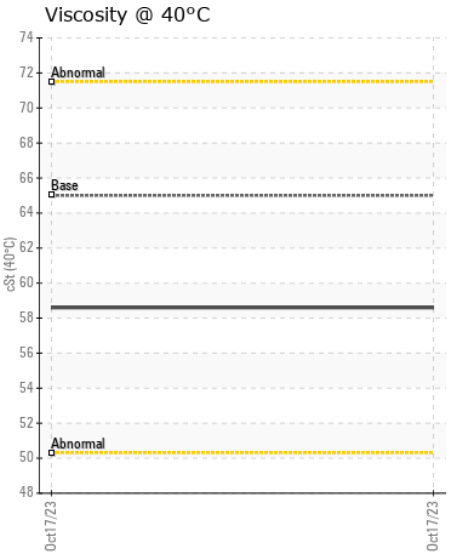
Ferrous Alloys



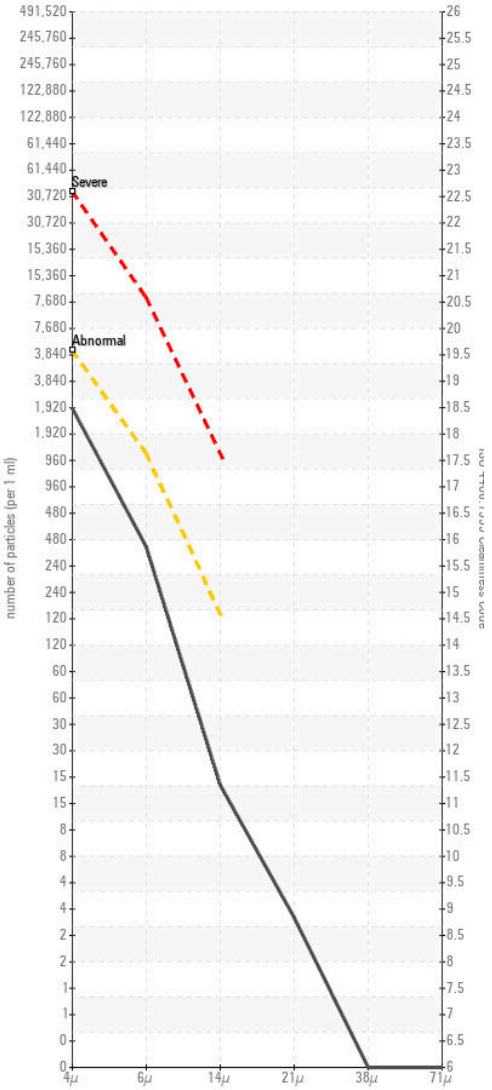
Non-ferrous Metals



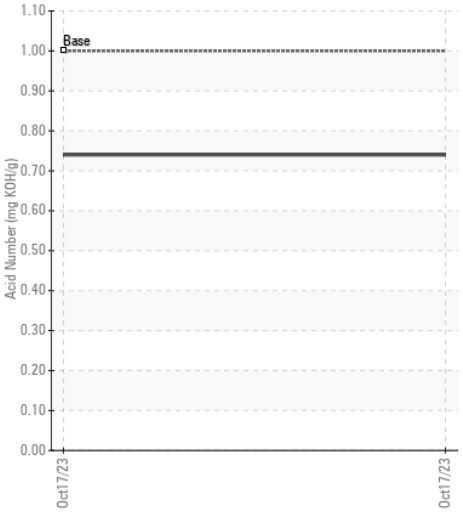
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0165186 **Received** : 20 Oct 2023
Lab Number : 05985473 **Tested** : 23 Oct 2023
Unique Number : 10702768 **Diagnosed** : 24 Oct 2023 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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)

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