



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16457]

Machine Id

JOHN DEERE 748L 1DW748LBAKF697049

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (131 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16457)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217211	JR0177182	JR0190402
Sample Date		Client Info		17 Jun 2024	24 Apr 2024	11 Oct 2023
Machine Age	hrs	Client Info		6084	5926	5630
Oil Age	hrs	Client Info		2000	0	0
Filter Age	hrs	Client Info		2000	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	2	1	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

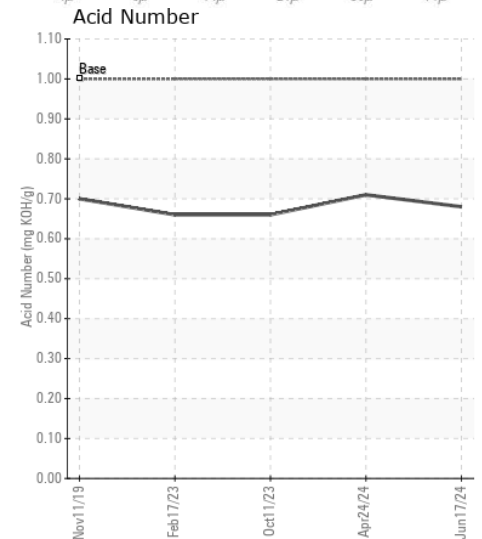
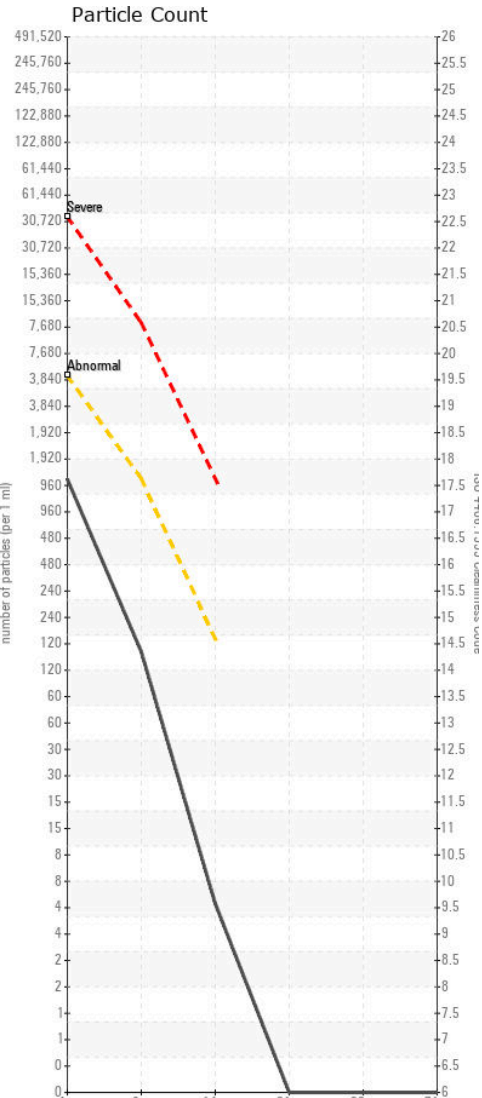
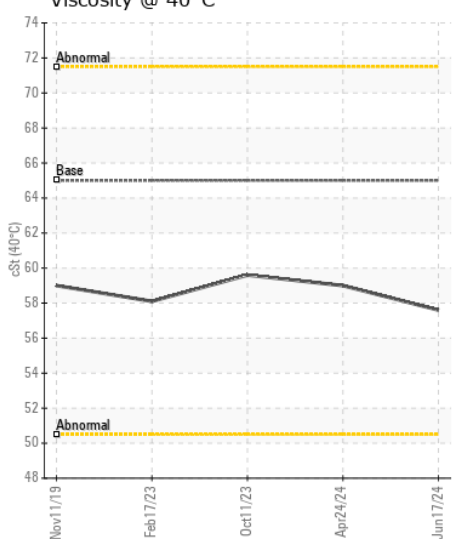
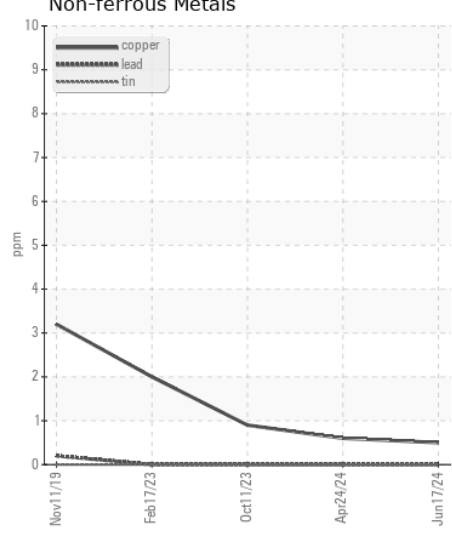
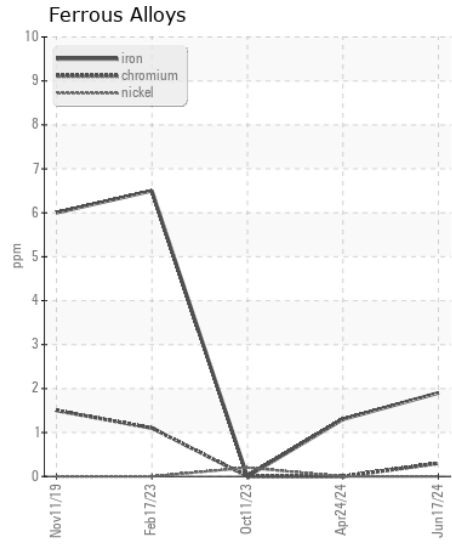
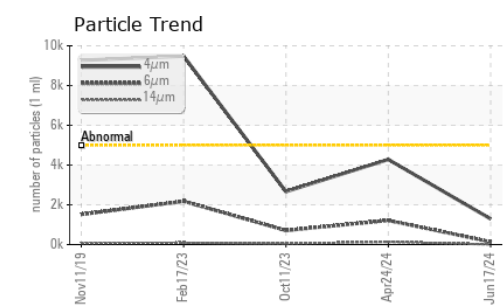
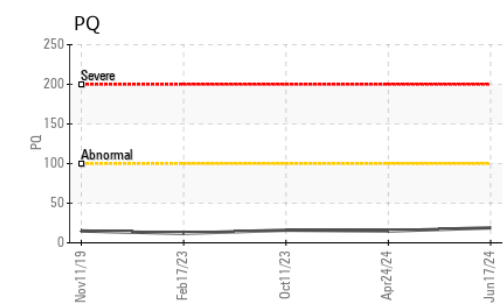
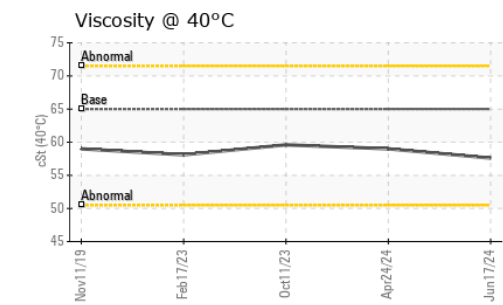
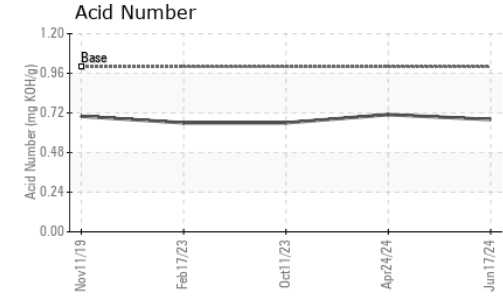
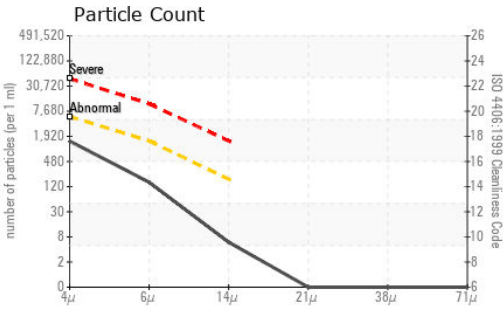
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	3	3	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1292	4282	2665
Particles >6µm		ASTM D7647	>1300	135	1215	711
Particles >14µm		ASTM D7647	>160	5	133	46
Particles >21µm		ASTM D7647	>40	0	36	9
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10	19/17/14	19/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	1	0
Boron	ppm	ASTM D5185m		23	22	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		5	3	0
Calcium	ppm	ASTM D5185m	87	802	821	95
Phosphorus	ppm	ASTM D5185m	727	685	733	600
Zinc	ppm	ASTM D5185m	900	895	918	873
Sulfur	ppm	ASTM D5185m	1500	2742	3576	1713
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.71	0.66
Visc @ 40°C	cSt	ASTM D445	65	57.6	59.0	59.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217211 **Received** : 19 Jun 2024
Lab Number : 06214547 **Tested** : 20 Jun 2024
Unique Number : 11087411 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CASTLE HAYNE
 113 CROWATAN ROAD
 CASTLE HAYNE, NC
 US 28429-5819

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)

Contact: WILMINGTON SHOP
 todd.simmons@jamesriverequipment.com; canastasio@wearcheck.com; canastasio@we
 T: (910)675-9211
 F: