



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W8881]
 Machine Id
JOHN DEERE 750K 1T0750KXPHF317888
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W8881)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196969	JR0183364	JR0140965
Sample Date		Client Info		09 May 2024	28 Nov 2023	20 Jun 2023
Machine Age	hrs	Client Info		5507	5016	4592
Oil Age	hrs	Client Info		2548	2481	2641
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ		ASTM D8184	>50	18	18	8
Iron	ppm	ASTM D5185m	>23	13	8	5
Chromium	ppm	ASTM D5185m	>9	▲ 11	5	2
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	<1
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>51	3	2	1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

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

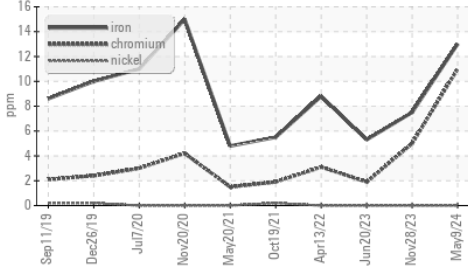
Silicon	ppm	ASTM D5185m	>31	4	2	2
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	3226	3172	493
Particles >6µm		ASTM D7647	>20000	110	222	88
Particles >14µm		ASTM D7647	>640	11	22	9
Particles >21µm		ASTM D7647	>160	3	7	2
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/14/11	19/15/12	16/14/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

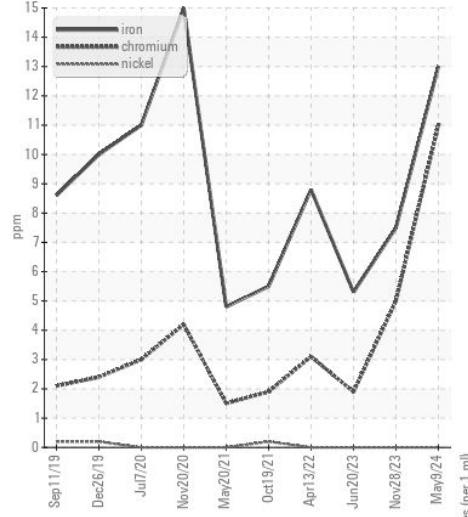
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	1	<1
Boron	ppm	ASTM D5185m		2	3	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		5	4	4
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		16	8	12
Calcium	ppm	ASTM D5185m	87	104	96	102
Phosphorus	ppm	ASTM D5185m	727	649	546	610
Zinc	ppm	ASTM D5185m	900	814	675	799
Sulfur	ppm	ASTM D5185m	1500	1662	1364	1853
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.77	0.73	0.74
Visc @ 40°C	cSt	ASTM D445	65	58.1	58.3	59.3

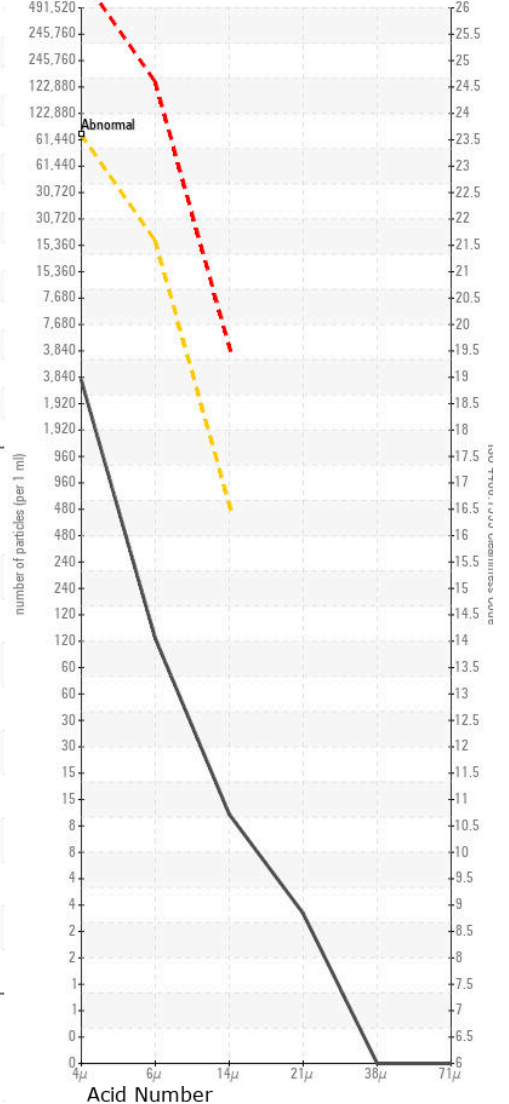
▲ Ferrous Alloys



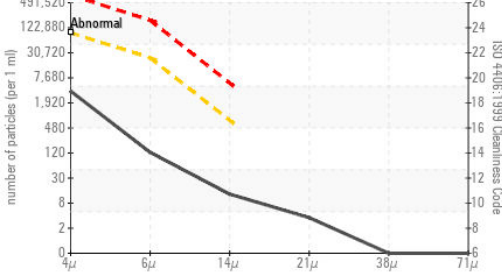
▲ Ferrous Alloys



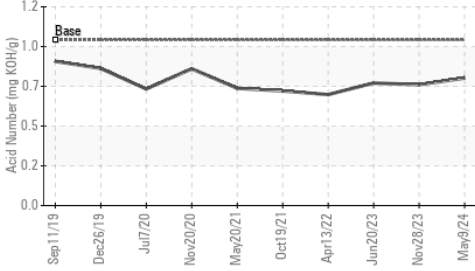
▲ Particle Count



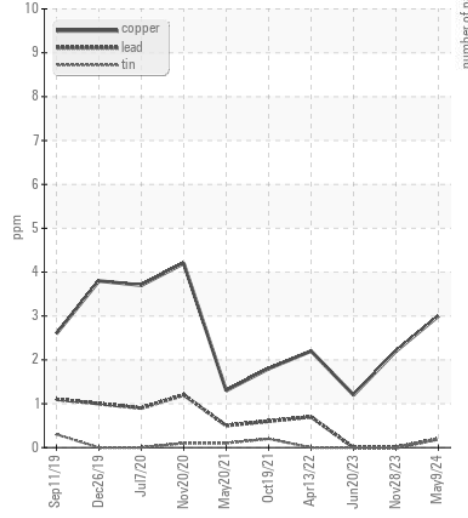
▲ Particle Count



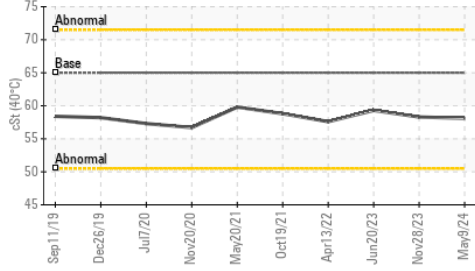
▲ Acid Number



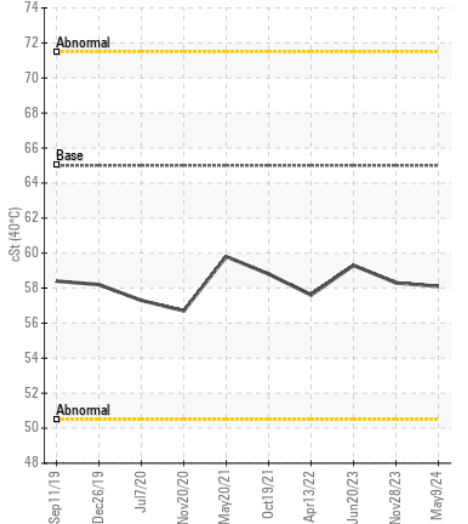
▲ Non-ferrous Metals



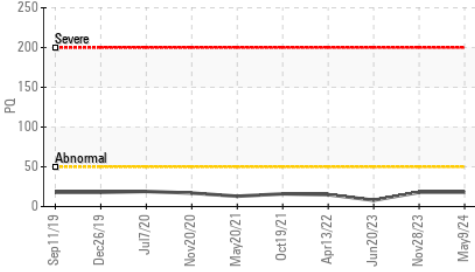
▲ Viscosity @ 40°C



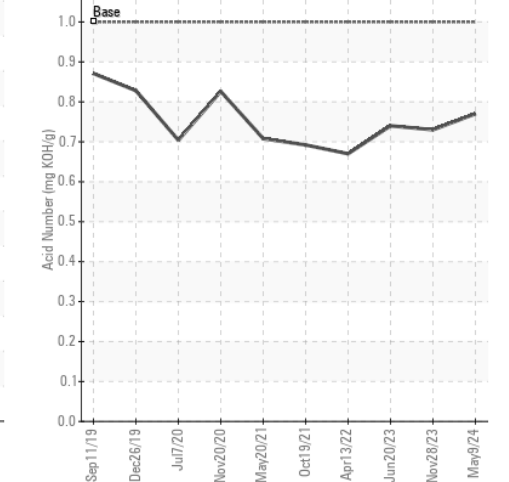
▲ Viscosity @ 40°C



▲ PQ



▲ Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196969 **Received** : 10 May 2024
Lab Number : 06175350 **Tested** : 13 May 2024
Unique Number : 11021403 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com

Certificate L2367
 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)