



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[A35885]

Machine Id
JOHN DEERE 744L 1DW744LXHNL715286

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: A35885)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007659	WE0007659	WE0006589
Sample Date		Client Info		16 Jul 2024	18 Jun 2024	24 Jan 2024
Machine Age	hrs	Client Info		2507	2372	1571
Oil Age	hrs	Client Info		2507	2372	1571
Filter Age	hrs	Client Info		2507	2372	1571
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	None	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	10	11	3
Chromium	ppm	ASTM D5185m	>10	3	3	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	4	3	3
Lead	ppm	ASTM D5185m	>10	0	1	0
Copper	ppm	ASTM D5185m	>75	5	6	1
Tin	ppm	ASTM D5185m	>10	<1	<1	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

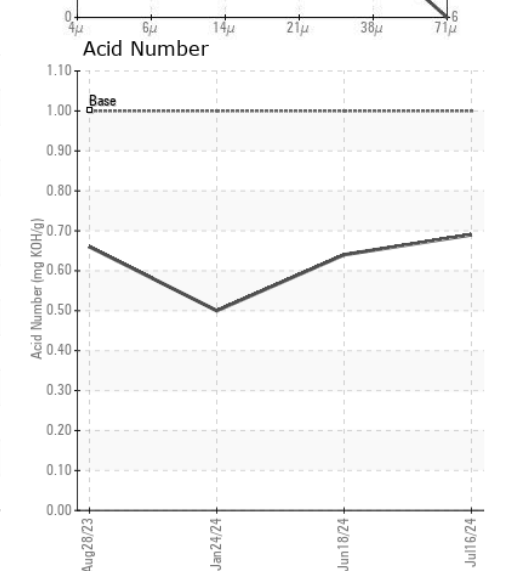
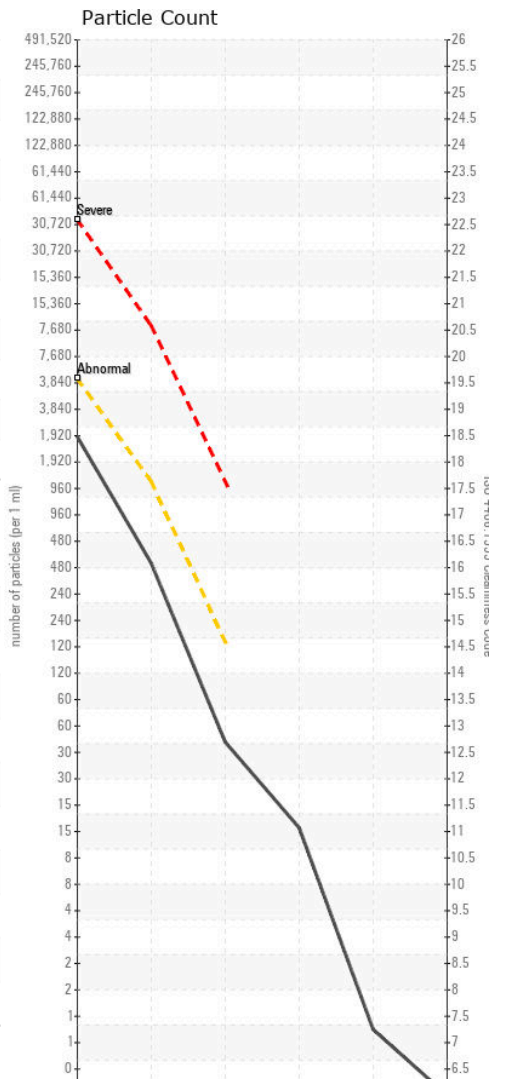
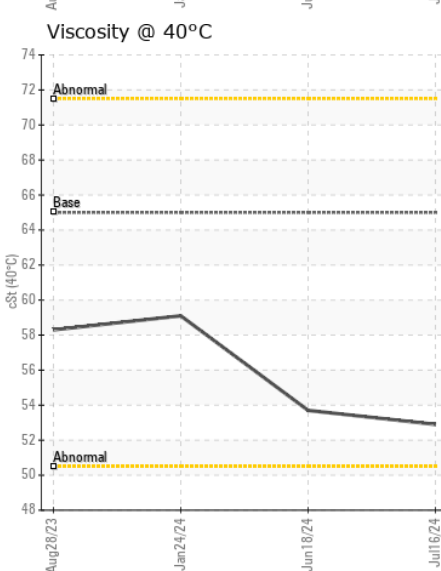
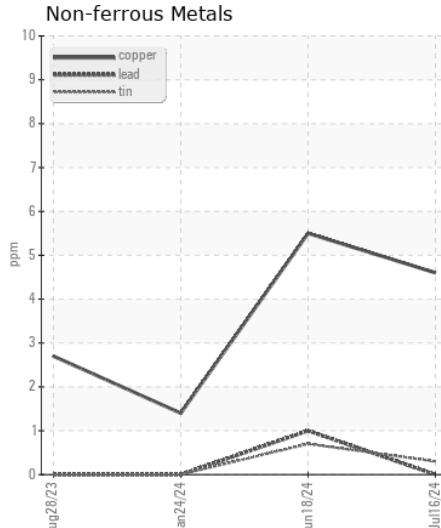
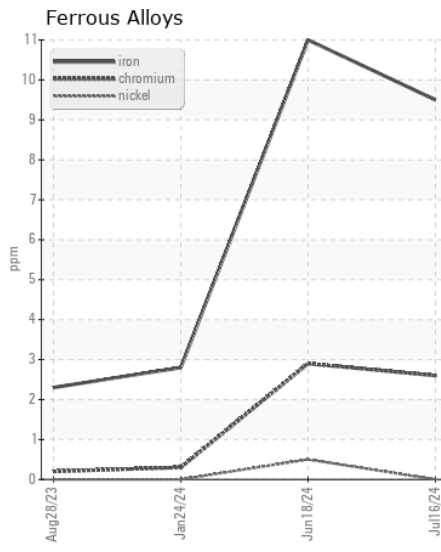
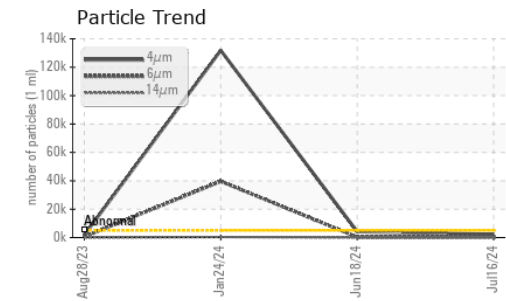
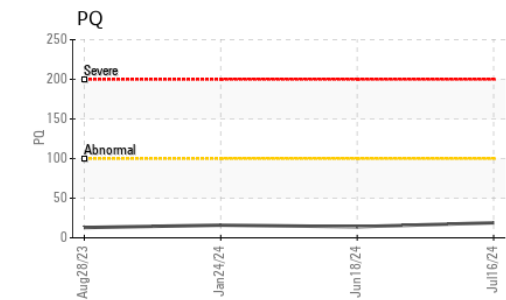
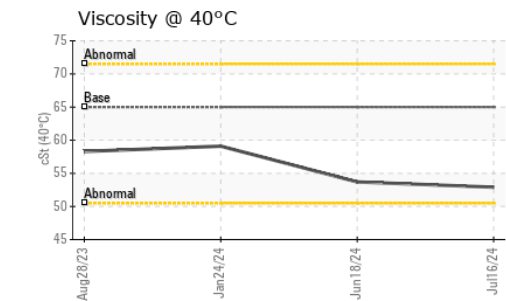
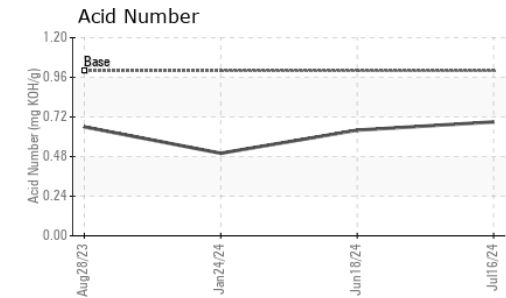
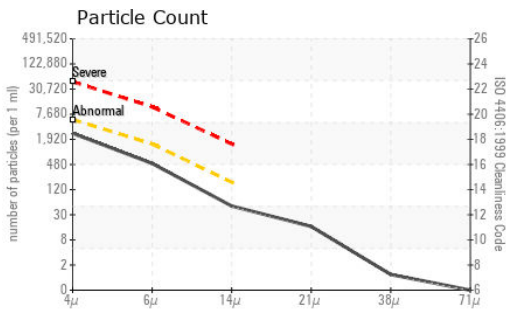
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	5	9	▲ 36
Potassium	ppm	ASTM D5185m	>20	3	3	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2339	4196	▲ 131820
Particles >6µm		ASTM D7647	>1300	446	303	▲ 39642
Particles >14µm		ASTM D7647	>160	43	10	▲ 378
Particles >21µm		ASTM D7647	>40	14	1	▲ 72
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	19/15/10	▲ 24/22/16
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	>0.1	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	4	0
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		46	42	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		10	10	24
Calcium	ppm	ASTM D5185m	87	773	721	386
Phosphorus	ppm	ASTM D5185m	727	691	860	609
Zinc	ppm	ASTM D5185m	900	941	1069	693
Sulfur	ppm	ASTM D5185m	1500	2168	2414	2294
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.69	0.64	0.50
Visc @ 40°C	cSt	ASTM D445	65	52.9	53.7	59.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007599 **Received** : 18 Jul 2024
Lab Number : 06240189 **Tested** : 19 Jul 2024
Unique Number : 11129023 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE
 25135 ONE AVIATION WAY SW
 MADISON, AL
 US 35756
 Contact: HERBERT STONE
 WTE013@WARRIORTRACTOR.COM

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)