



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 8250R 8250R UNIT 4 (S/N 187038)

Component
Hydraulic System

Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0002539	PE0003805	PE0003793
Sample Date		Client Info		10 Jul 2024	28 May 2024	08 Feb 2024
Machine Age	hrs	Client Info		3613	3502	3276
Oil Age	hrs	Client Info		3502	3276	3123
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. The nickel level is abnormal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 36	15	12
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	▲ 10	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	2	<1
Copper	ppm	ASTM D5185m	>75	5	8	7
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

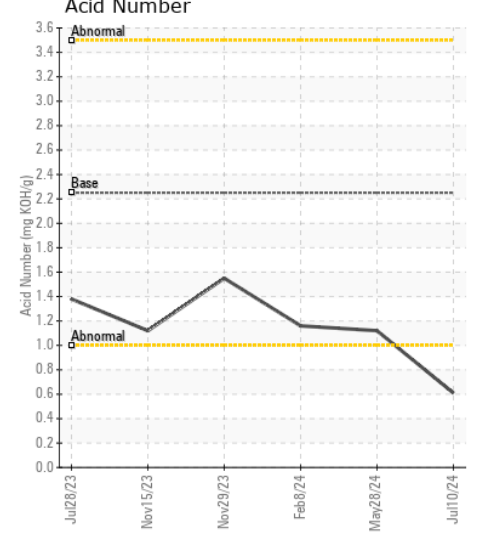
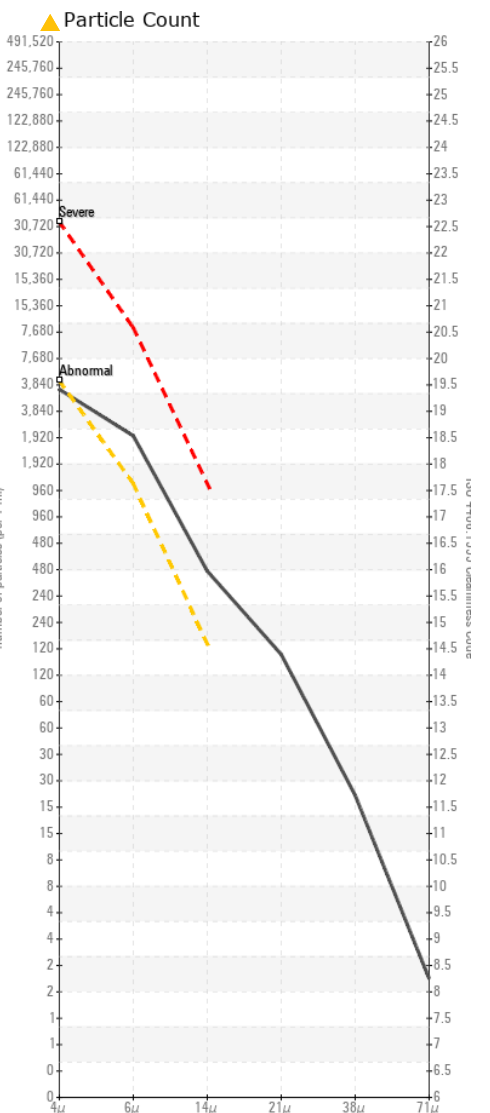
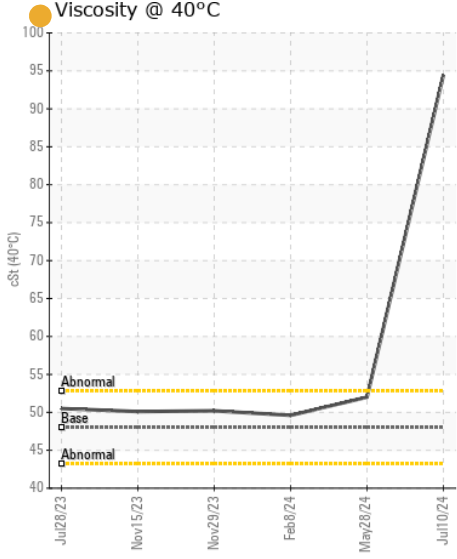
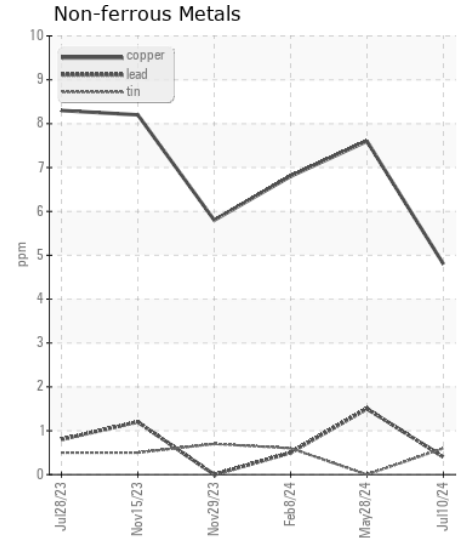
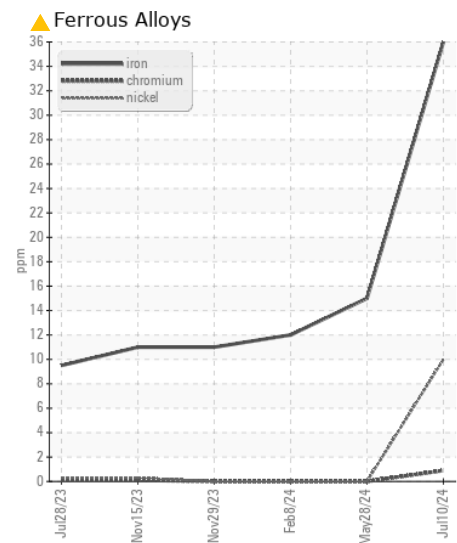
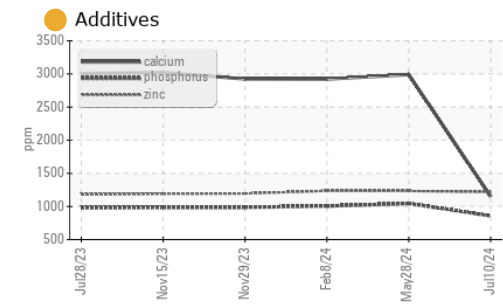
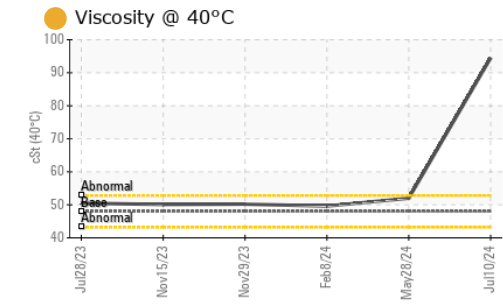
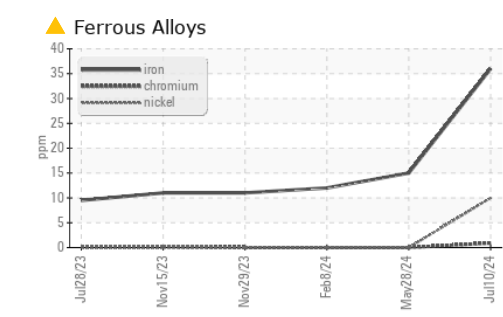
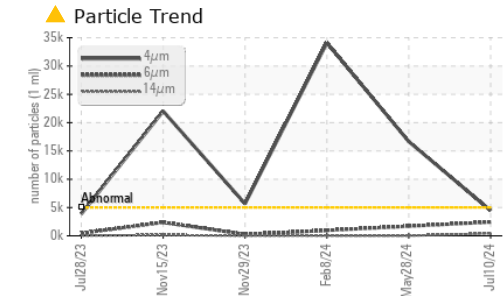
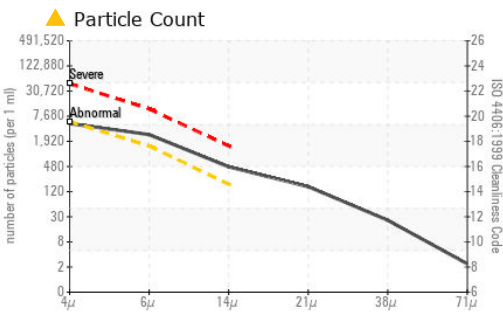
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	5	4
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	4463	▲ 16651	▲ 34088
Particles >6µm		ASTM D7647	>1300	▲ 2431	● 1697	961
Particles >14µm		ASTM D7647	>160	▲ 414	18	22
Particles >21µm		ASTM D7647	>40	▲ 139	4	5
Particles >38µm		ASTM D7647	>10	▲ 22	0	0
Particles >71µm		ASTM D7647	>3	▲ 2	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/18/16	▲ 21/18/11	▲ 22/17/12
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 oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		6	2	1
Boron	ppm	ASTM D5185m	10	4	5	4
Barium	ppm	ASTM D5185m	10	<1	<1	0
Molybdenum	ppm	ASTM D5185m	10	● 68	2	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	● 944	70	70
Calcium	ppm	ASTM D5185m	3500	● 1150	2991	2922
Phosphorus	ppm	ASTM D5185m	1150	857	1045	1006
Zinc	ppm	ASTM D5185m	1150	1218	1233	1235
Sulfur	ppm	ASTM D5185m	5000	● 2598	4049	3520
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	0.61	1.12	1.16
Visc @ 40°C	cSt	ASTM D445	48	● 94.45	52.0	49.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002539 **Received** : 15 Jul 2024
Lab Number : 06235771 **Tested** : 19 Jul 2024
Unique Number : 11124605 **Diagnosed** : 19 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)
 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)

MORNING STAR DAIRY
 801 FM 694
 DALHART, TX
 US 79022
 Contact: JOHN DEVRIES
 johndevries@gmail.com
 T:
 F: