



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 650J DOZER 22407 (S/N 131527)
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0882814	WC0822586	WC0822587
Sample Date		Client Info		26 Jun 2024	30 Aug 2023	30 Aug 2023
Machine Age	hrs	Client Info		15531	15291	15291
Oil Age	hrs	Client Info		1000	1000	1000
Filter Age	hrs	Client Info		1000	1000	1000
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>23	5	10	6
Chromium	ppm	ASTM D5185m	>9	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	9	2
Lead	ppm	ASTM D5185m	>28	0	0	<1
Copper	ppm	ASTM D5185m	>51	2	18	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

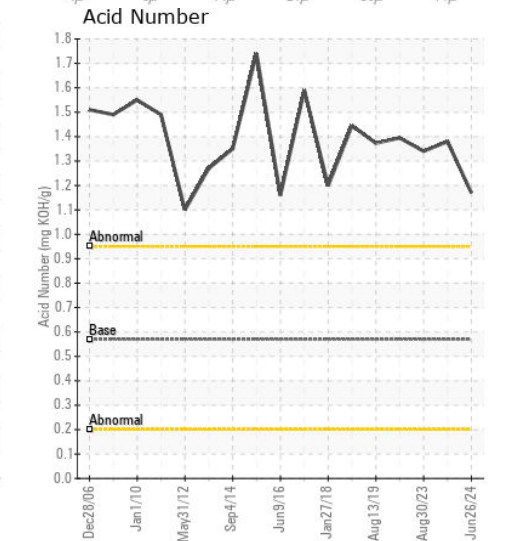
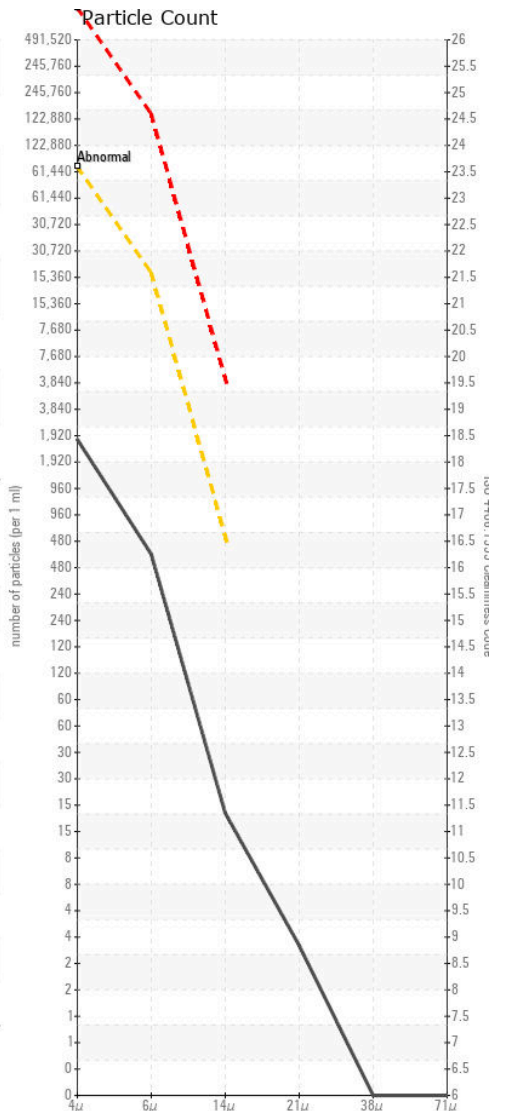
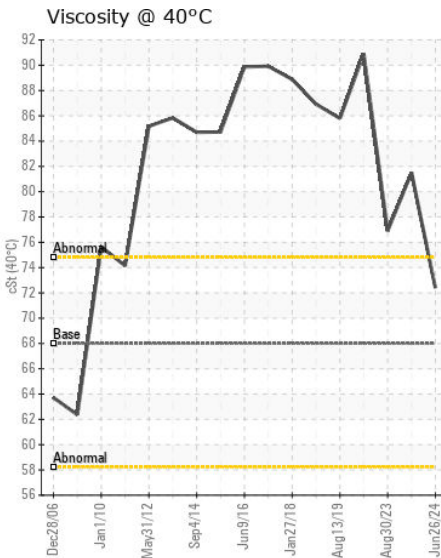
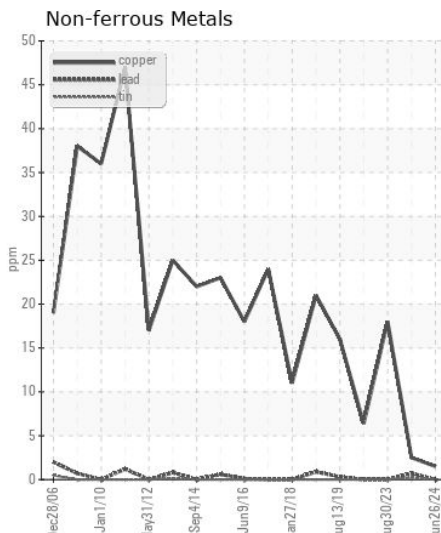
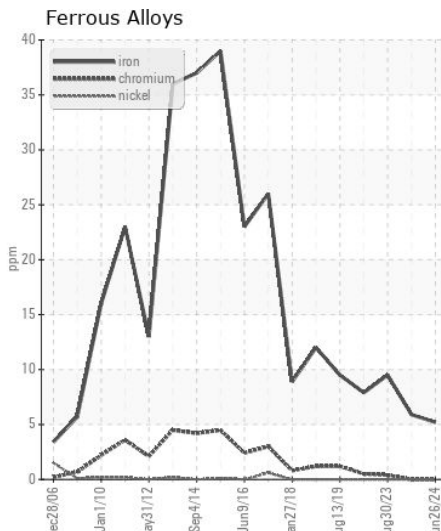
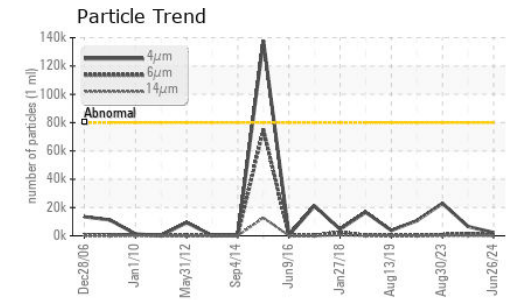
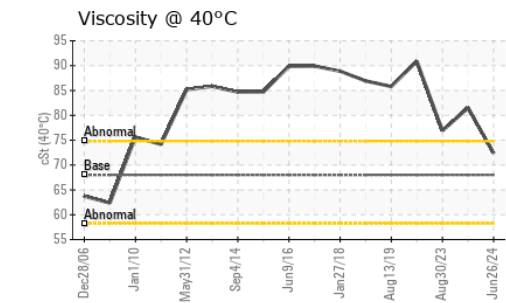
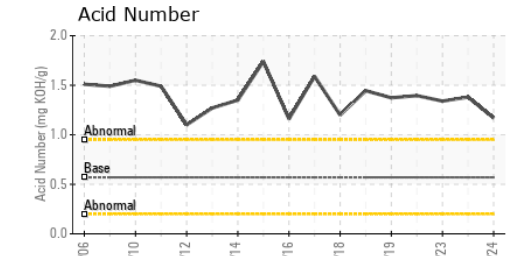
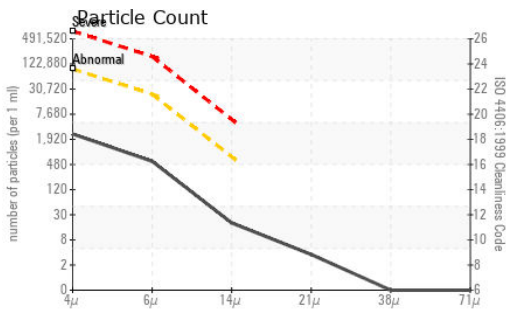
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	5	12	5
Potassium	ppm	ASTM D5185m	>20	<1	3	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2258	22923	6587
Particles >6µm		ASTM D7647	>20000	503	746	1608
Particles >14µm		ASTM D7647	>640	17	43	84
Particles >21µm		ASTM D7647	>160	3	13	20
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	18/16/11	22/17/13	20/18/14
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	2	0	0
Boron	ppm	ASTM D5185m	5	294	356	394
Barium	ppm	ASTM D5185m	5	<1	2	2
Molybdenum	ppm	ASTM D5185m	5	86	104	112
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	377	405	436
Calcium	ppm	ASTM D5185m	200	1084	1265	1297
Phosphorus	ppm	ASTM D5185m	300	683	809	745
Zinc	ppm	ASTM D5185m	370	773	972	893
Sulfur	ppm	ASTM D5185m	2500	2554	2747	2746
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.17	1.38	1.34
Visc @ 40°C	cSt	ASTM D445	68	72.4	81.5	76.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0882814

Lab Number : 06227348

Unique Number : 11110841

Test Package : CONST

Received : 03 Jul 2024

Tested : 06 Jul 2024

Diagnosed : 06 Jul 2024 - Don Baldridge

SULLIVAN EASTERN INC

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MORRISVILLE, NC

US 27560

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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)