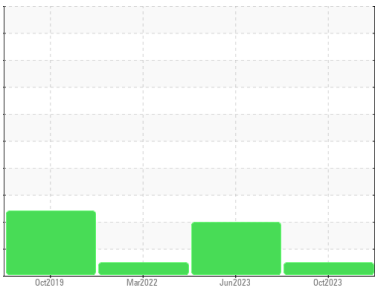
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[W45138]
Machine Id
JOHN DEERE 844J DW844JX610102
Component
Hydraulic System
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0180562**	JR0165438	JR0125085
Sample Date		Client Info		**13 Oct 2023**	12 Jun 2023	17 Mar 2022
Machine Age	hrs	Client Info		**19023**	18900	17318
Oil Age	hrs	Client Info		**2**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	**7**	11	16
Iron	ppm	ASTM D5185m	>71	**7**	2	8
Chromium	ppm	ASTM D5185m	>11	**1**	0	<1
Nickel	ppm	ASTM D5185m	>6	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**<1**	<1	<1
Aluminum	ppm	ASTM D5185m	>11	**6**	<1	6
Lead	ppm	ASTM D5185m	>13	**0**	0	<1
Copper	ppm	ASTM D5185m	>21	**1**	0	2
Tin	ppm	ASTM D5185m	>5	**0**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

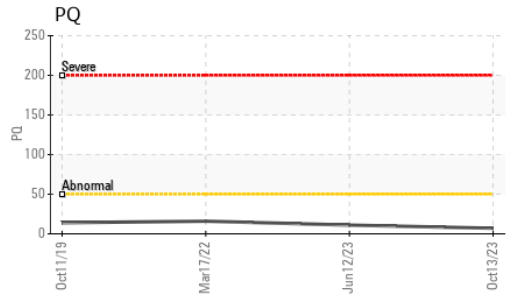
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**261**	▲ 259	71
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**220**	▲ 247	59
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**731**	▲ 726	189
Calcium	ppm	ASTM D5185m		**1673**	▲ 1328	2687
Phosphorus	ppm	ASTM D5185m		**986**	853	1077
Zinc	ppm	ASTM D5185m		**1141**	1024	1239
Sulfur	ppm	ASTM D5185m		**3410**	3491	2922

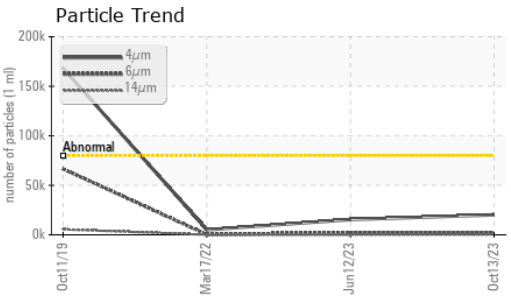
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	**13**	7	12
Sodium	ppm	ASTM D5185m	>21	**2**	0	0
Potassium	ppm	ASTM D5185m	>20	**1**	2	3

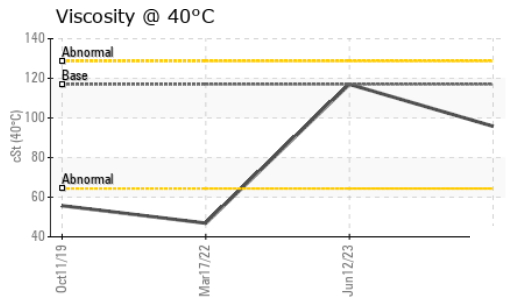
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	**20163**	15422	5107
Particles >6µm		ASTM D7647	>5000	**2345**	2298	262
Particles >14µm		ASTM D7647	>640	**178**	64	21
Particles >21µm		ASTM D7647	>160	**42**	13	6
Particles >38µm		ASTM D7647	>40	**2**	0	0
Particles >71µm		ASTM D7647	>10	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	**22/18/15**	21/18/13	20/15/12

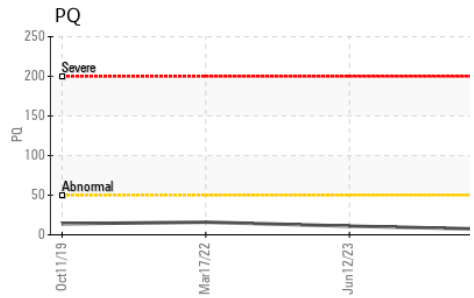
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.71**	1.96	1.38

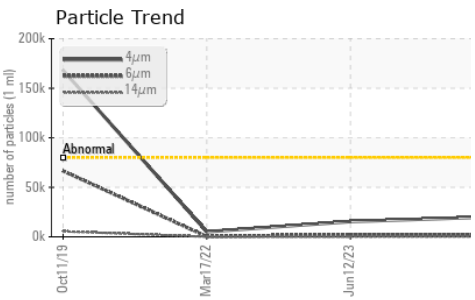
OIL ANALYSIS REPORT







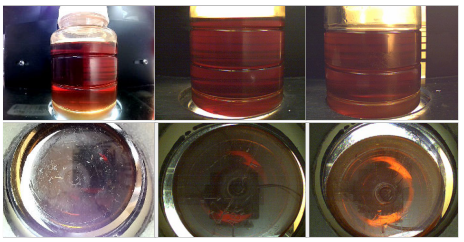




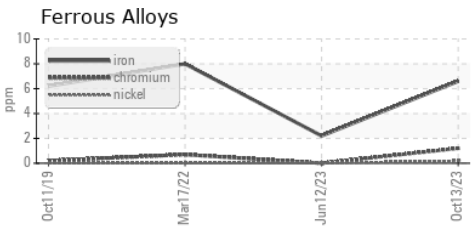
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

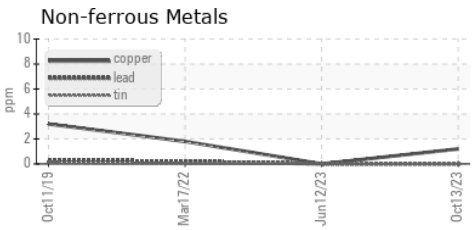
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	117	**95.8**	▲ 117.0	46.9

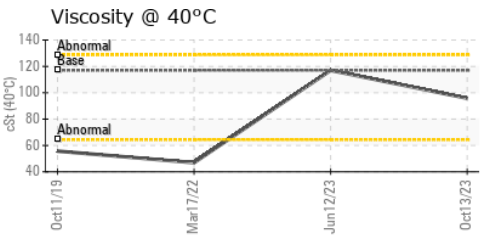
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

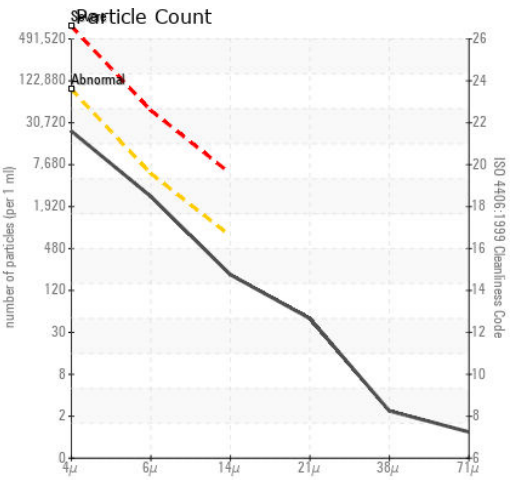


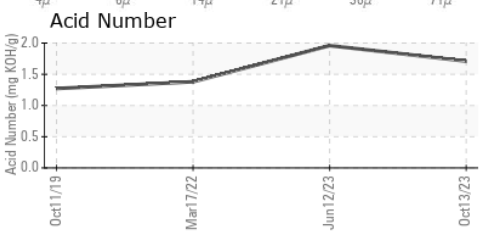
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0180562 **Received** : 16 Oct 2023
Lab Number : 05979525 **Diagnosed** : 17 Oct 2023
Unique Number : 10696820 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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)

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