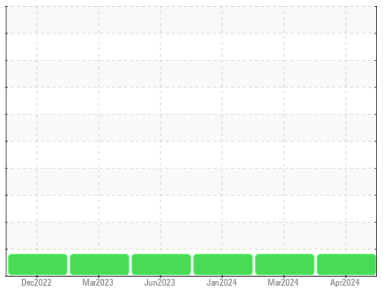
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
JOHN DEERE 132
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0189715**	JR0189762	JR0189723
Sample Date		Client Info		**30 Apr 2024**	06 Mar 2024	09 Jan 2024
Machine Age	hrs	Client Info		**4008**	3500	3000
Oil Age	hrs	Client Info		**4008**	3500	3000
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**18**	17	17
Iron	ppm	ASTM D5185m	>20	**4**	7	9
Chromium	ppm	ASTM D5185m	>10	**13**	12	11
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**1**	<1	2
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>75	**<1**	<1	1
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

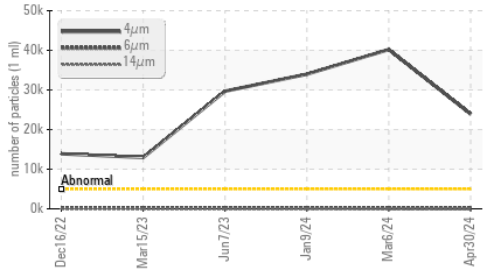
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	**10**	17	17
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	1
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	145	**9**	8	12
Calcium	ppm	ASTM D5185m	3570	**720**	701	671
Phosphorus	ppm	ASTM D5185m	1290	**761**	765	762
Zinc	ppm	ASTM D5185m	1640	**945**	961	981
Sulfur	ppm	ASTM D5185m		**2973**	3049	2953

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**<1**	3	3
Sodium	ppm	ASTM D5185m		**5**	4	<1
Potassium	ppm	ASTM D5185m	>20	**2**	1	3

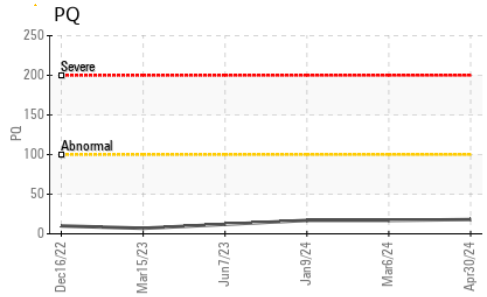
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **23922**	▲ 40203	▲ 33982
Particles >6µm		ASTM D7647	>1300	**62**	73	145
Particles >14µm		ASTM D7647	>160	**10**	7	18
Particles >21µm		ASTM D7647	>40	**3**	3	6
Particles >38µm		ASTM D7647	>10	**0**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/13/10**	▲ 23/13/10	▲ 22/14/11

OIL ANALYSIS REPORT

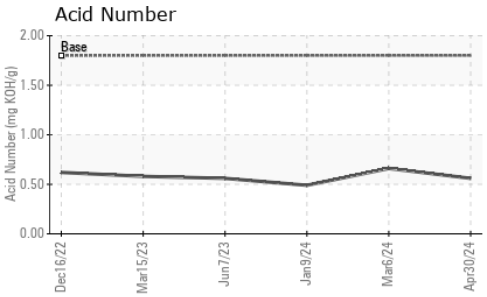
Particle Trend



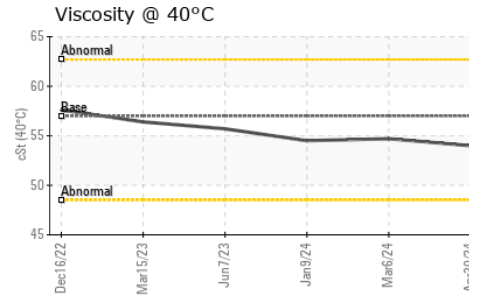
PQ



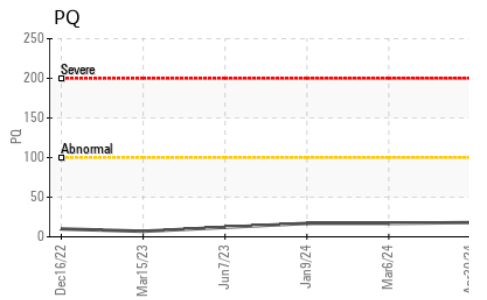
Acid Number



Viscosity @ 40°C



PQ

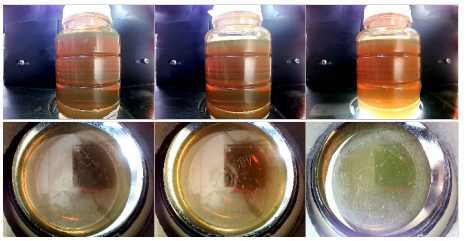


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	**0.56**	0.66	0.49

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	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

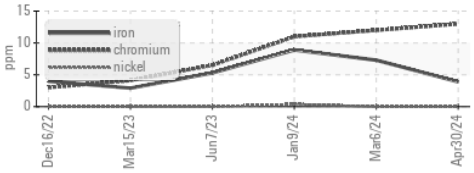
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	**54.0**	54.7	54.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

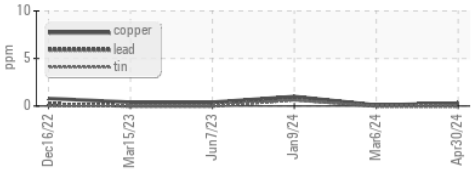


GRAPHS

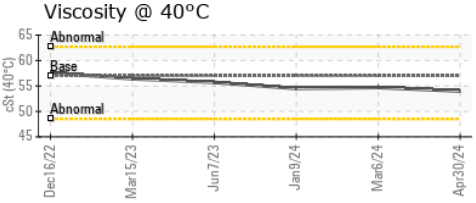
Ferrous Alloys



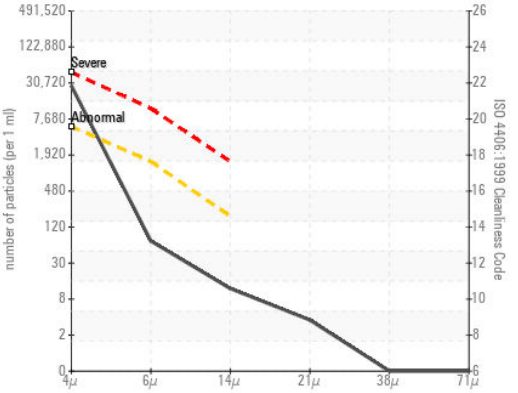
Non-ferrous Metals



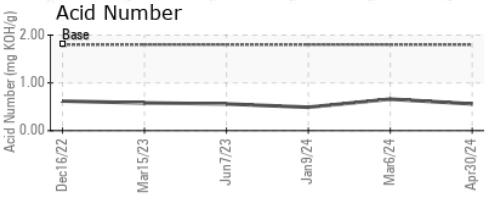
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189715
Lab Number : 06197528
Unique Number : 11059651
Test Package : CONST (Additional Tests: PQ)

Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Don Baldridge

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)

THE SCOTTS COMPANY
3175 BRIGHT LEAF RD
LAWRENCEVILLE, VA
US 23868
Contact: REX WATSON

T: (434)848-2727
F: (434)848-2250

Report Id: SCOLAW [WUSCAR] 06197528 (Generated: 06/24/2024 13:54:32) Rev: 1

Contact/Location: REX WATSON - SCOLAW