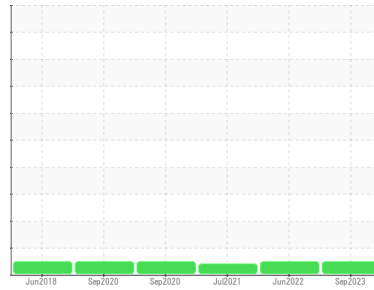


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
[W46889]
 Machine Id
JOHN DEERE 544K 1DW544KZPHF681773
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)


DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0179472	JR0106359	JR0089450
Sample Date	Client Info		29 Sep 2023	09 Jun 2022	09 Jul 2021
Machine Age	hrs	Client Info	9857	7990	5980
Oil Age	hrs	Client Info	0	0	2000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		28	74	58
Iron	ppm	ASTM D5185m >500	476	144	140
Chromium	ppm	ASTM D5185m >10	2	<1	<1
Nickel	ppm	ASTM D5185m >10	4	3	1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >25	17	2	0
Lead	ppm	ASTM D5185m >25	2	2	<1
Copper	ppm	ASTM D5185m >100	12	6	10
Tin	ppm	ASTM D5185m >10	12	1	<1
Antimony	ppm	ASTM D5185m >5	---	---	0
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6	<1	3	9
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	1	1	<1
Manganese	ppm	ASTM D5185m	5	2	2
Magnesium	ppm	ASTM D5185m 145	117	96	101
Calcium	ppm	ASTM D5185m 3570	3817	3244	3308
Phosphorus	ppm	ASTM D5185m 1290	1134	919	970
Zinc	ppm	ASTM D5185m 1640	1275	1196	1176
Sulfur	ppm	ASTM D5185m	3724	3195	2961

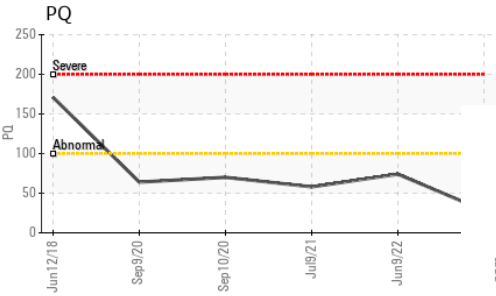
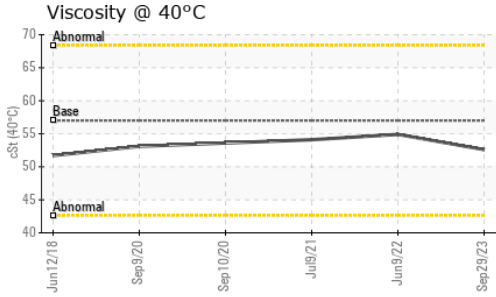
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	30	12	11
Sodium	ppm	ASTM D5185m	3	1	<1
Potassium	ppm	ASTM D5185m >20	<1	0	2

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	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	▲ MODER
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 >.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

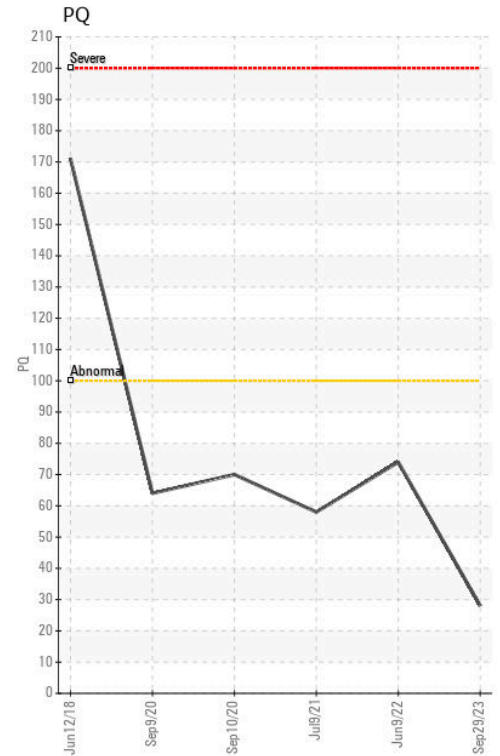
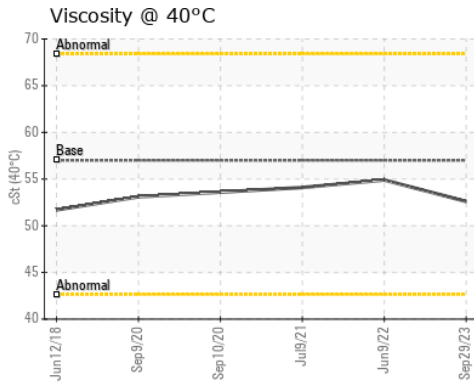
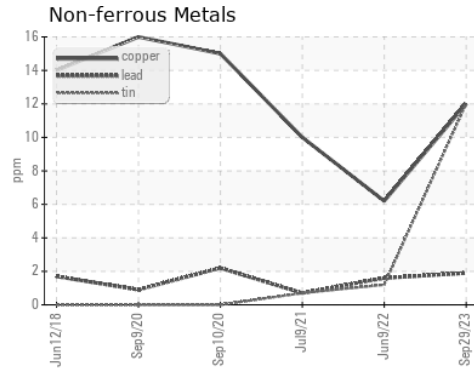
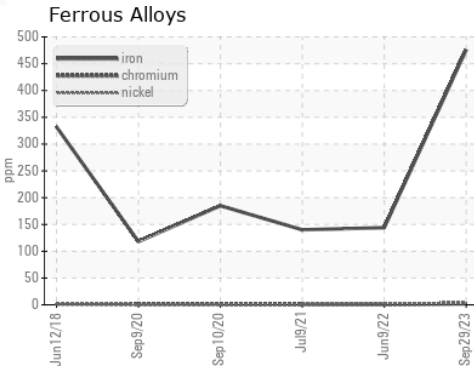
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	52.6	54.9	54.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179472 **Received** : 04 Oct 2023
Lab Number : 05969199 **Diagnosed** : 06 Oct 2023
Unique Number : 10675750 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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 US 23005
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 T: (804)798-6001
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