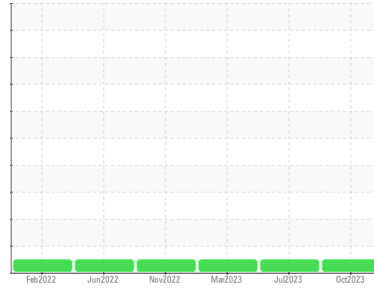


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
[W60332]
 Machine Id
HITACHI 470LC HCMJAG60A00061635
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: W60332)

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			JR0188664	JR0172108	JR0162555
Sample Date	Client Info			02 Oct 2023	07 Jul 2023	23 Mar 2023
Machine Age	hrs	Client Info		3042	2543	1982
Oil Age	hrs	Client Info		1982	2543	0
Oil Changed	Client Info			Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

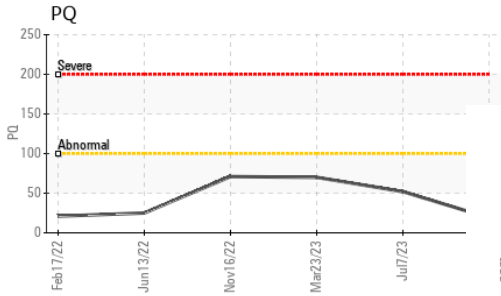
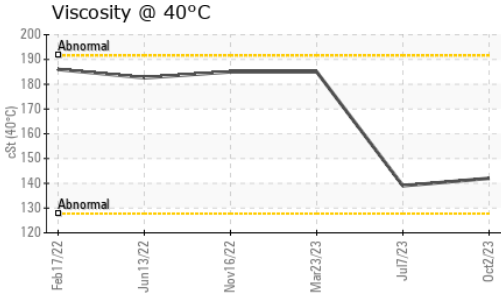
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		19	52	70
Iron	ppm	ASTM D5185m	>500	41	126	263
Chromium	ppm	ASTM D5185m	>10	<1	1	4
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	9	11
Lead	ppm	ASTM D5185m	>25	0	2	0
Copper	ppm	ASTM D5185m	>50	<1	3	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34	5	35
Barium	ppm	ASTM D5185m		0	0	8
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	3	13
Magnesium	ppm	ASTM D5185m		13	4	2
Calcium	ppm	ASTM D5185m		6	138	10
Phosphorus	ppm	ASTM D5185m		404	341	513
Zinc	ppm	ASTM D5185m		0	35	32
Sulfur	ppm	ASTM D5185m		16417	19024	17391

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	12	22	27
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	8	17

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

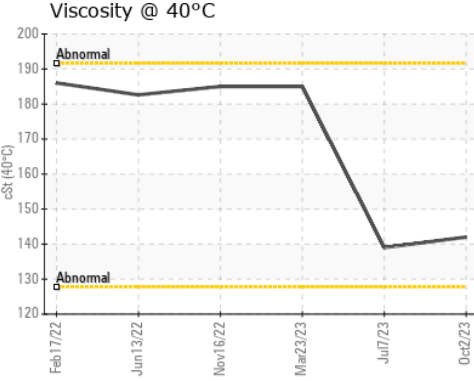
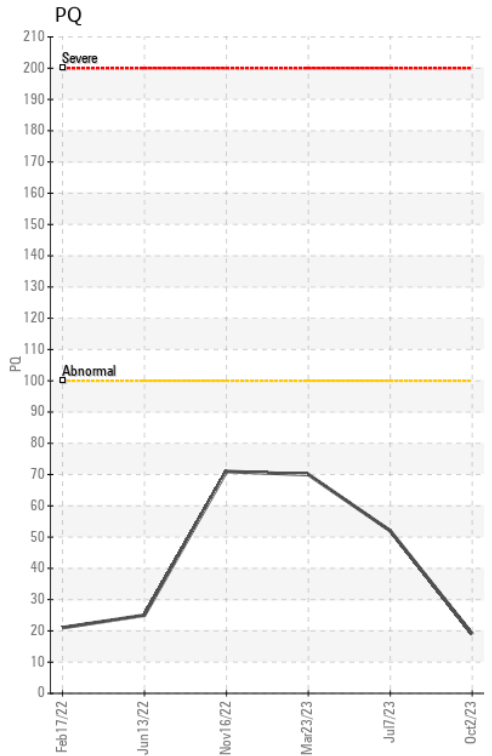
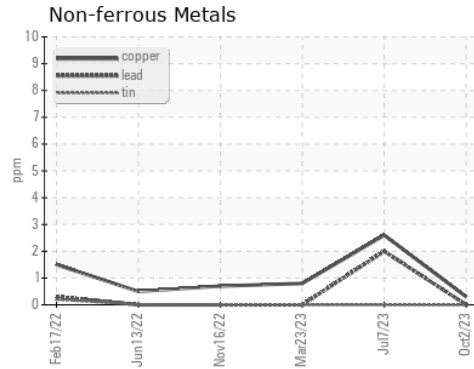
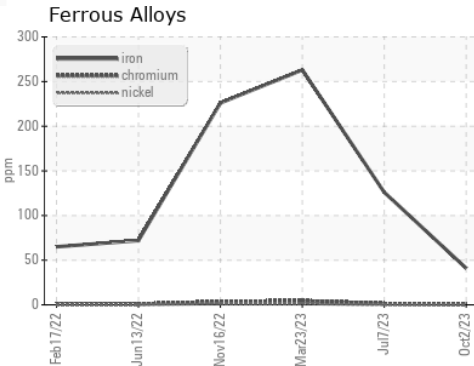
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	142	139	185

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0188664 **Received** : 17 Oct 2023
Lab Number : 05981345 **Diagnosed** : 19 Oct 2023
Unique Number : 10698640 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)