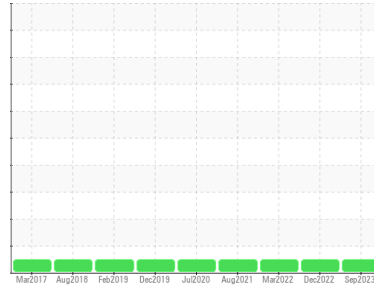


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
[W46760]
 Machine Id
HITACHI 470 HCMJAA70K00030813
 Component
Right Swing Drive Gear Case
 Fluid
JOHN DEERE GL-5 80W90 (--- QTS)


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			JR0180030	JR0147339	JR0125427
Sample Date	Client Info			26 Sep 2023	12 Dec 2022	22 Mar 2022
Machine Age	hrs Client Info			12978	11953	10953
Oil Age	hrs Client Info			0	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

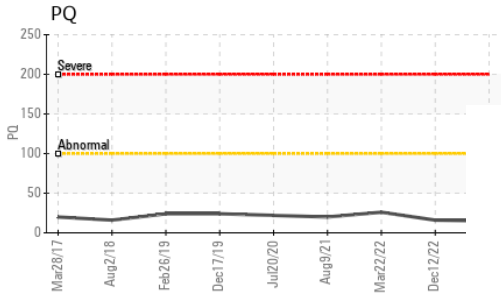
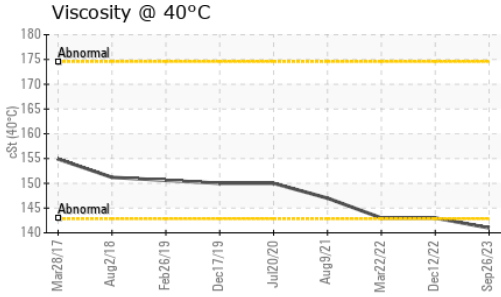
WEAR METALS		method	limit/base	current	history1	history2
PQ	ASTM D8184			15	16	26
Iron	ppm ASTM D5185m	>200		27	36	48
Chromium	ppm ASTM D5185m	>10		<1	<1	<1
Nickel	ppm ASTM D5185m	>10		0	0	0
Titanium	ppm ASTM D5185m			0	0	<1
Silver	ppm ASTM D5185m			0	0	0
Aluminum	ppm ASTM D5185m			<1	2	2
Lead	ppm ASTM D5185m			0	0	0
Copper	ppm ASTM D5185m			<1	<1	<1
Tin	ppm ASTM D5185m			0	0	0
Antimony	ppm ASTM D5185m	>5		---	---	---
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			49	138	90
Barium	ppm ASTM D5185m			2	0	0
Molybdenum	ppm ASTM D5185m			0	0	<1
Manganese	ppm ASTM D5185m			<1	<1	<1
Magnesium	ppm ASTM D5185m			<1	2	3
Calcium	ppm ASTM D5185m			15	16	77
Phosphorus	ppm ASTM D5185m			622	875	919
Zinc	ppm ASTM D5185m			18	14	19
Sulfur	ppm ASTM D5185m			21635	25056	21844

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m			4	7	7
Sodium	ppm ASTM D5185m			0	<1	0
Potassium	ppm ASTM D5185m	>20		<1	0	1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE		MODER	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	LIGHT	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

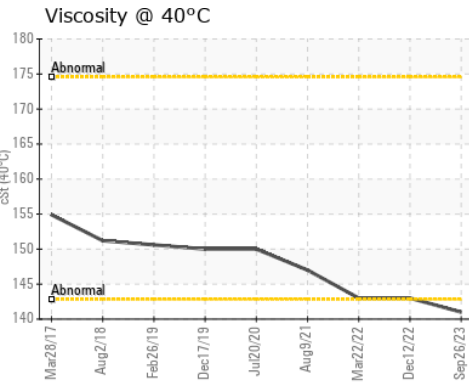
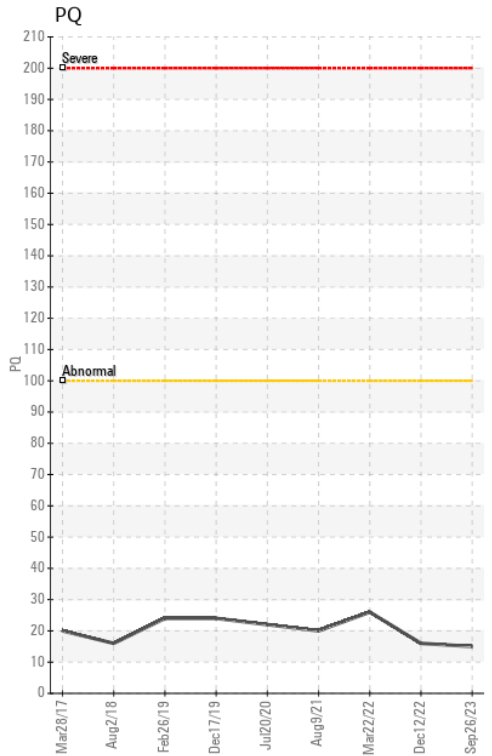
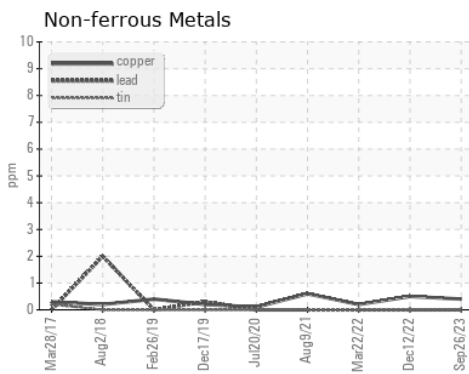
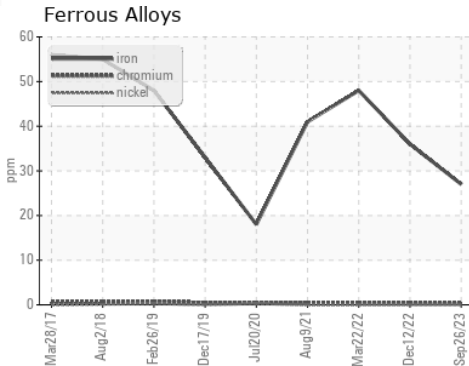
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	141	143	143

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. : JR0180030 **Received** : 28 Sep 2023
Lab Number : **05963710** **Diagnosed** : 29 Sep 2023
Unique Number : 10670261 **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

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)