

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

## RECOMMENDATION

The oil 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.

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Gear wear is indicated. All other component wear rates are normal.

## CONTAMINATION

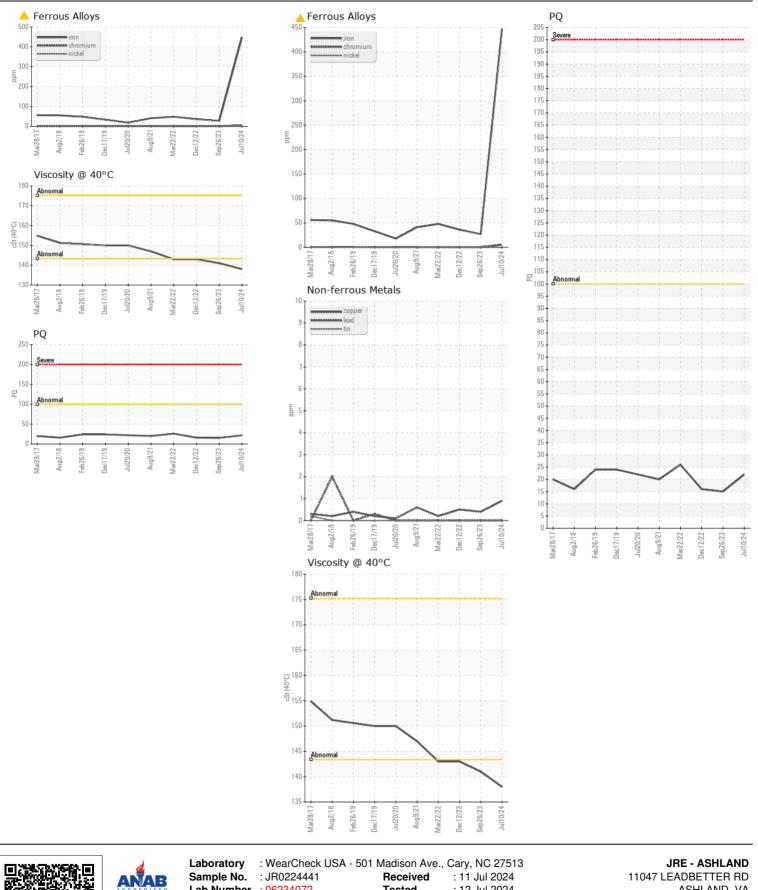
There is no indication of any contamination in the oil.

<b>FLUID CONDITION</b>
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The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224441	JR0180030	JR0147339
Sample Date		Client Info		10 Jul 2024	26 Sep 2023	12 Dec 2022
Machine Age	hrs	Client Info		13968	12978	11953
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184		22	15	16
Iron	ppm	ASTM D5185m	>200	<b>4</b> 47	27	36
Chromium	ppm	ASTM D5185m	>10	5	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		2	<1	2
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		9	4	7
Potassium	ppm	ASTM D5185m	>20	6	<1	0
Water	ppin	WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m		11	49	138
Barium	ppm	ASTM D5185m		2	2	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		6	<1	<1
Magnesium	ppm	ASTM D5185m		3	<1	2
Calcium	ppm	ASTM D5185m		6	15	16
Phosphorus	ppm	ASTM D5185m		1769	622	875
Zinc	ppm	ASTM D5185m		12	18	14
Sulfur	ppm	ASTM D5185m		25377	21635	25056
Visc @ 40°C	cSt	ASTM D445		138	141	143

Contact/Location: DAVID ZIEG - JAMASH



Sample No. : JR0224441 Received 11047 LEADBETTER RD : 11 Jul 2024 : 06234072 Lab Number ASHLAND, VA Tested : 12 Jul 2024 Unique Number : 11122906 : 14 Jul 2024 - Don Baldridge US 23005 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2