



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI 190W-6 HCMLBH60V00005009
 Component
Swing Drive Gear Case
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221954	JR0209225	JR0156691
Sample Date		Client Info		18 Jun 2024	10 Apr 2024	28 Dec 2022
Machine Age	hrs	Client Info		5563	5019	2553
Oil Age	hrs	Client Info		544	0	2553
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		None	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		22	13	12
Iron	ppm	ASTM D5185m	>200	<1	8	115
Chromium	ppm	ASTM D5185m	>10	0	0	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	2	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

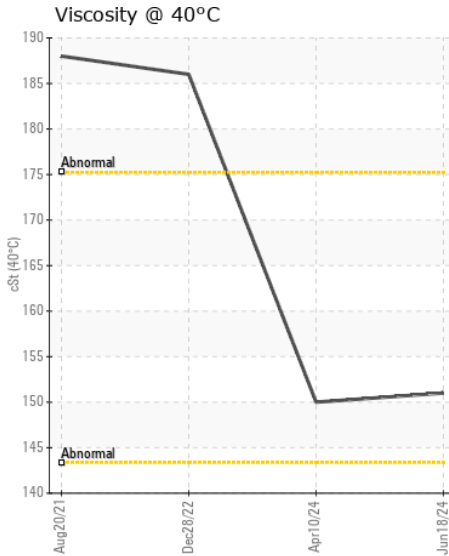
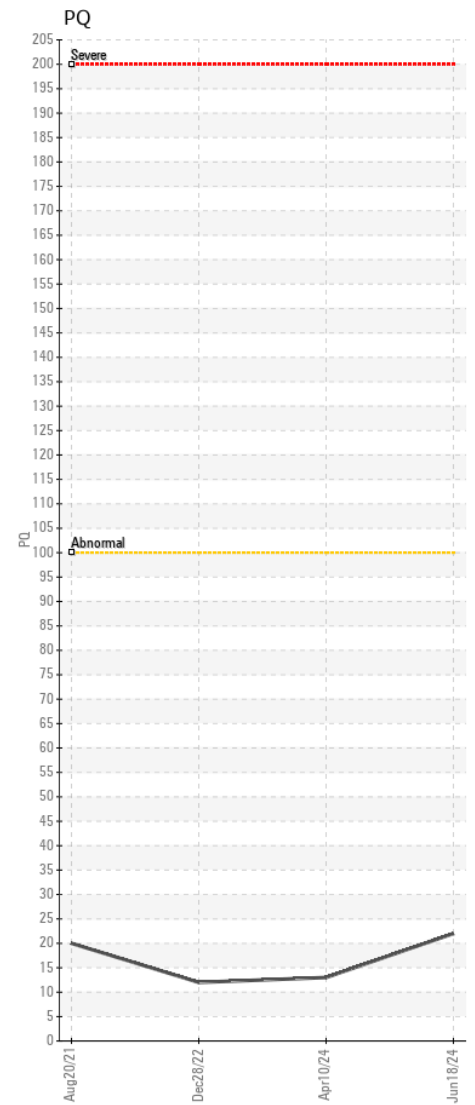
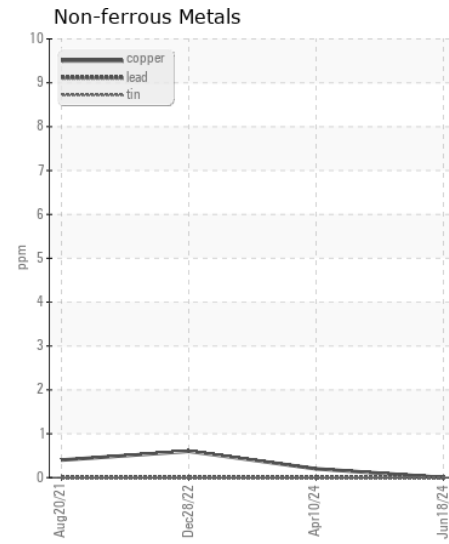
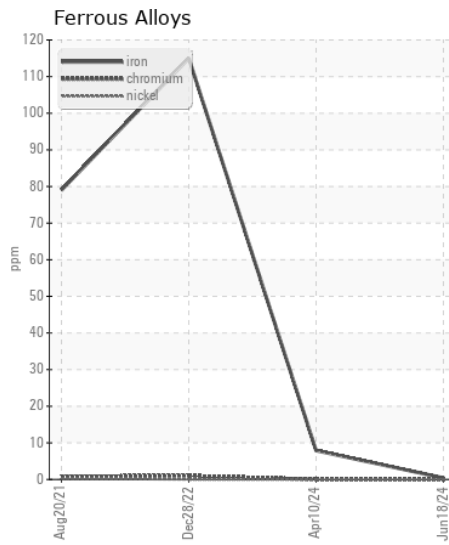
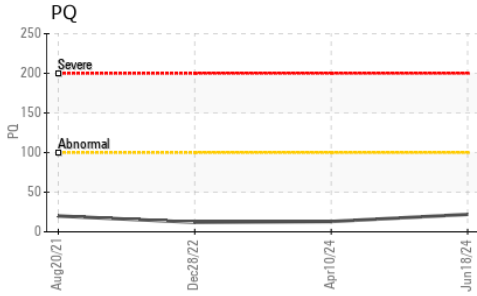
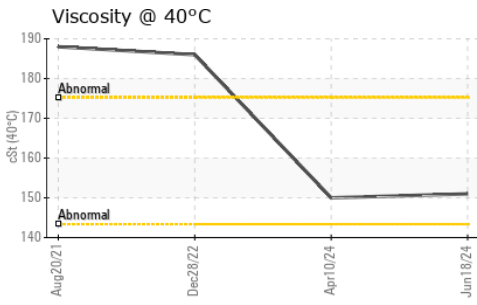
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		2	<1	19
Potassium	ppm	ASTM D5185m	>20	0	1	8
Water		WC Method	>0.2	NEG	NEG	NEG
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	0	<1
Boron	ppm	ASTM D5185m		11	13	489
Barium	ppm	ASTM D5185m		0	0	9
Molybdenum	ppm	ASTM D5185m		6	6	1
Manganese	ppm	ASTM D5185m		0	0	2
Magnesium	ppm	ASTM D5185m		26	19	8
Calcium	ppm	ASTM D5185m		30	39	19
Phosphorus	ppm	ASTM D5185m		2269	2512	480
Zinc	ppm	ASTM D5185m		23	27	33
Sulfur	ppm	ASTM D5185m		31072	30807	16338
Visc @ 40°C	cSt	ASTM D445		151	150	186



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221954 **Received** : 20 Jun 2024
Lab Number : 06216005 **Tested** : 22 Jun 2024
Unique Number : 11088869 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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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