



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI 345LC-6 HCMDD560T00010281

Component
Swing Drive Gear Case

Fluid
JOHN DEERE GL-5 80W90 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218455	JR0200766	JR0172764
Sample Date		Client Info		14 Jun 2024	17 Jan 2024	09 May 2023
Machine Age	hrs	Client Info		1967	1458	966
Oil Age	hrs	Client Info		1967	492	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		30	26	61
Iron	ppm	ASTM D5185m	>200	52	31	89
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	2	0
Lead	ppm	ASTM D5185m		2	0	0
Copper	ppm	ASTM D5185m		5	<1	0
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

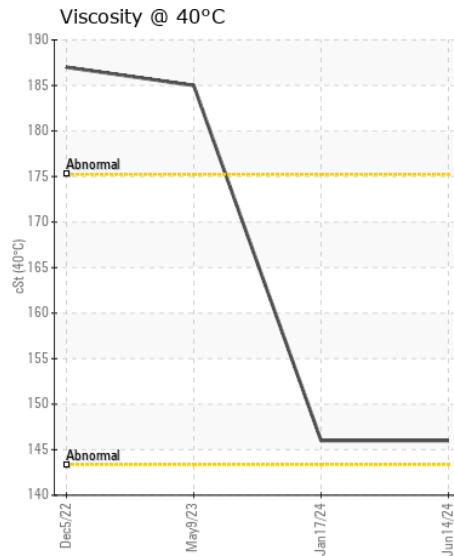
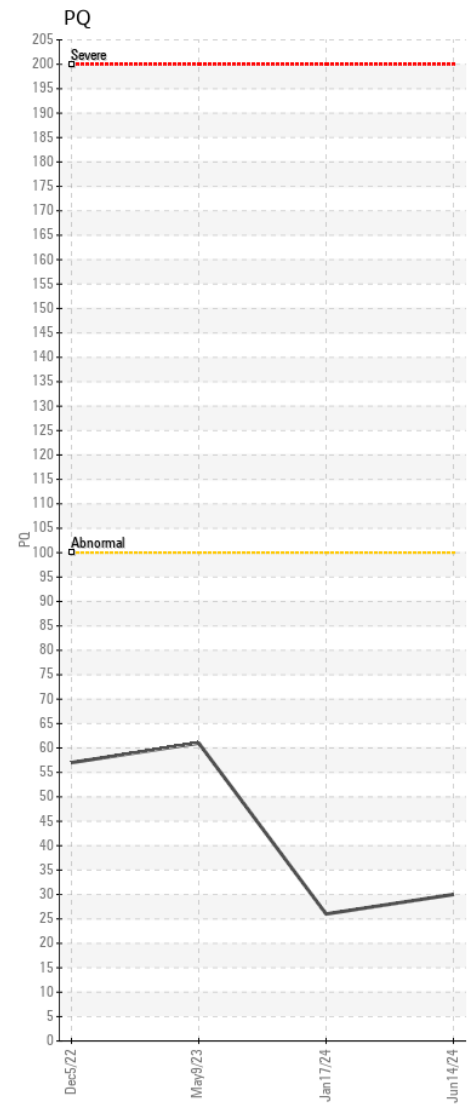
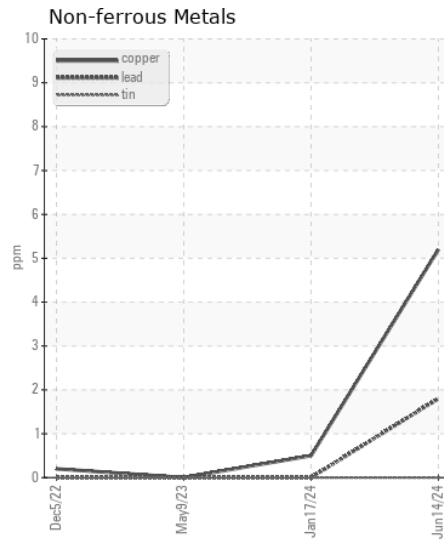
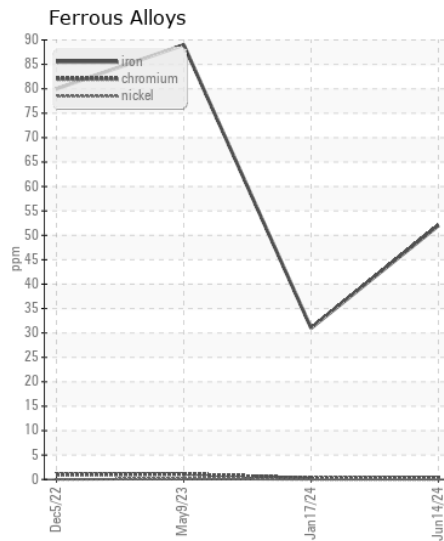
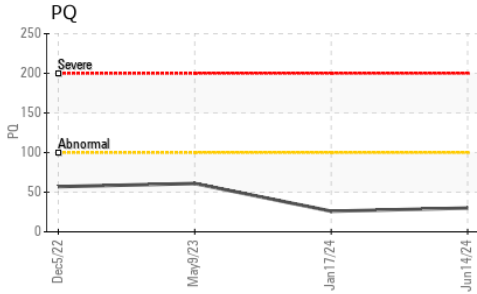
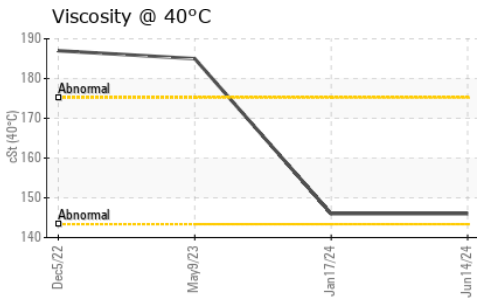
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		7	6	19
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
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		0	0	1
Boron	ppm	ASTM D5185m		44	48	72
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m		4	5	0
Calcium	ppm	ASTM D5185m		14	53	17
Phosphorus	ppm	ASTM D5185m		458	539	481
Zinc	ppm	ASTM D5185m		14	7	0
Sulfur	ppm	ASTM D5185m		15491	20097	18086
Visc @ 40°C	cSt	ASTM D445		146	146	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0218455

Lab Number : 06213820

Unique Number : 11086684

Test Package : CONST (Additional Tests: PQ)

Received : 18 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Sean Felton

JRE - MANASSAS PARK

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US 20111

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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)