



Machine Id
JOHN DEERE S550 1H0S550SPD0755174 - REVERSER

Component
Gearbox

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

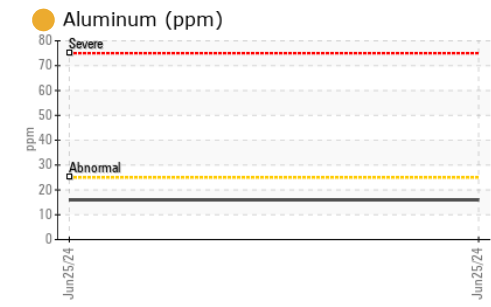
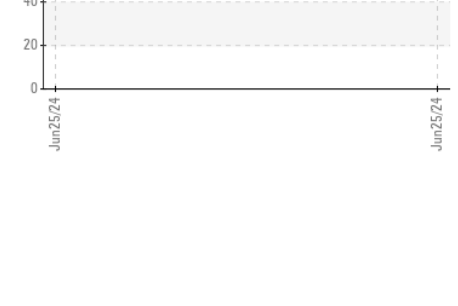
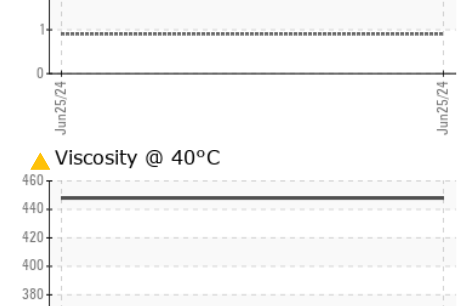
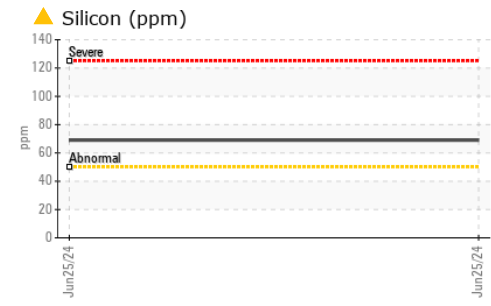
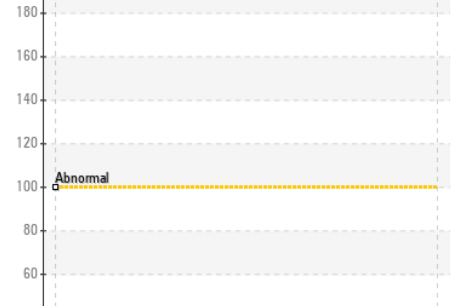
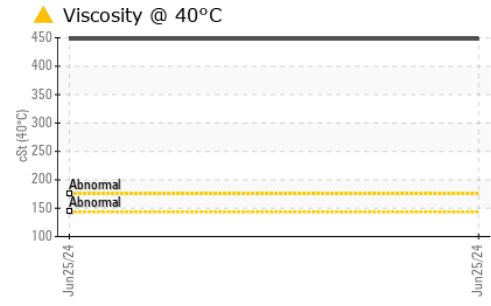
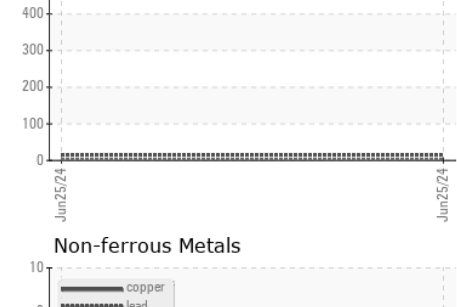
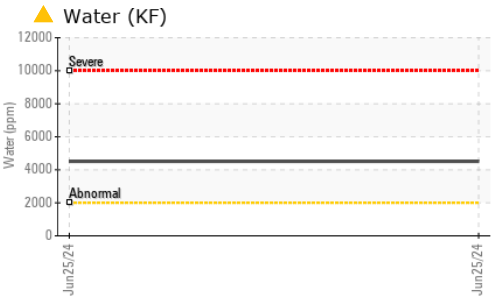
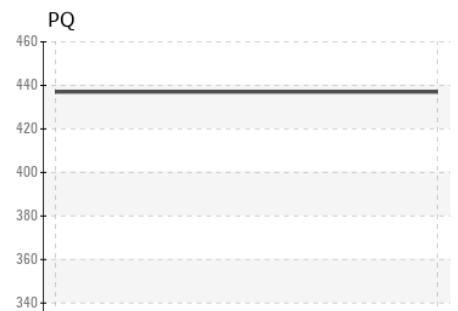
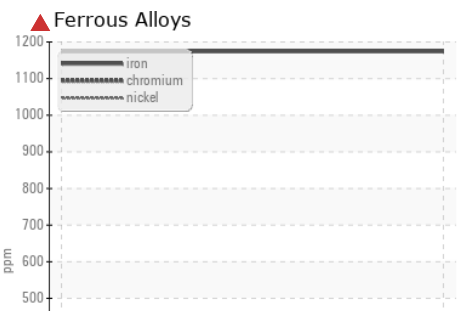
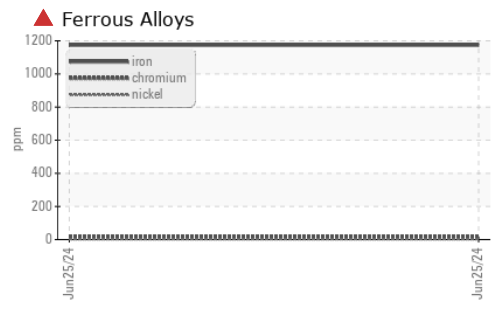
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216858	---	---
Sample Date		Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info		1029	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		437	---	---
Iron	ppm	ASTM D5185m	>200	▲ 1174	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 16	---	---
Lead	ppm	ASTM D5185m	>50	2	---	---
Copper	ppm	ASTM D5185m	>200	3	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 69	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Water	%	ASTM D6304	>0.2	▲ 0.451	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4510	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		15	---	---
Boron	ppm	ASTM D5185m		36	---	---
Barium	ppm	ASTM D5185m		12	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		25	---	---
Magnesium	ppm	ASTM D5185m		30	---	---
Calcium	ppm	ASTM D5185m		208	---	---
Phosphorus	ppm	ASTM D5185m		546	---	---
Zinc	ppm	ASTM D5185m		128	---	---
Sulfur	ppm	ASTM D5185m		7825	---	---
Visc @ 40°C	cSt	ASTM D445		▲ 448	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0216858
Lab Number : 06221506
Unique Number : 11099703
Test Package : CONST (Additional Tests: KF, PQ)

JRE - WAKEFIELD
 10489 GENERAL MAHONE HWY
 WAKEFIELD, VA
 US 23888
 Contact: BILL ACKER
 backer@jamesriverequipment.com

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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