



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W00830]

Machine Id

JOHN DEERE 310SL 1T0310SLHKF363441

Component

Front Left Final Drive

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0112663	---	---
Sample Date		Client Info		21 Dec 2021	---	---
Machine Age	hrs	Client Info		512	---	---
Oil Age	hrs	Client Info		512	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	250	---	---
Iron	ppm	ASTM D5185m	>750	380	---	---
Chromium	ppm	ASTM D5185m	>9	7	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	4	---	---
Lead	ppm	ASTM D5185m	>15	<1	---	---
Copper	ppm	ASTM D5185m	>40	4	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	LIGHT	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

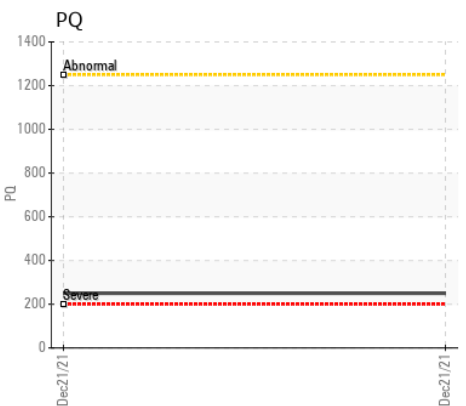
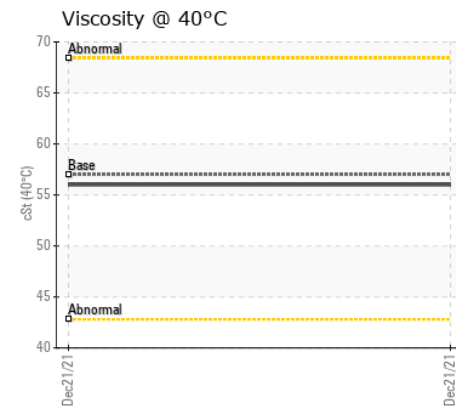
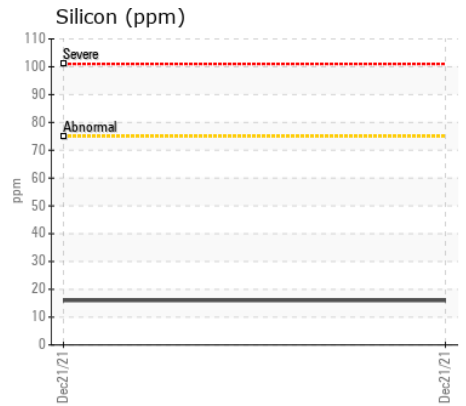
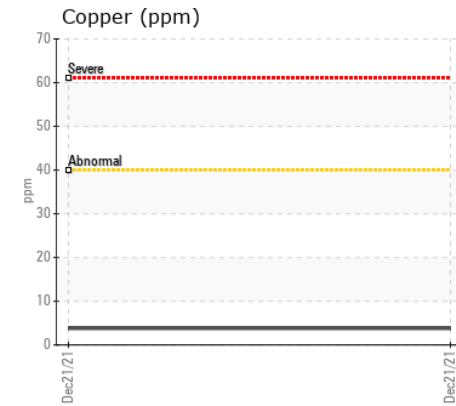
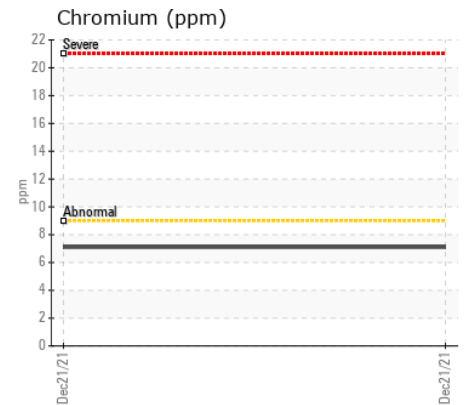
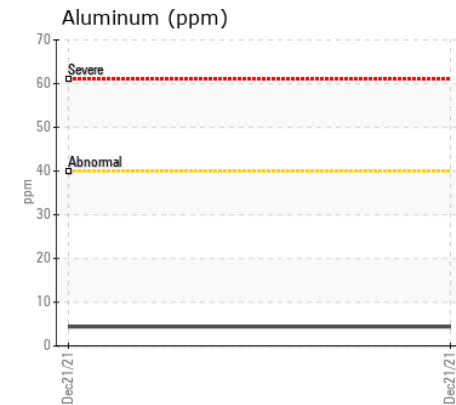
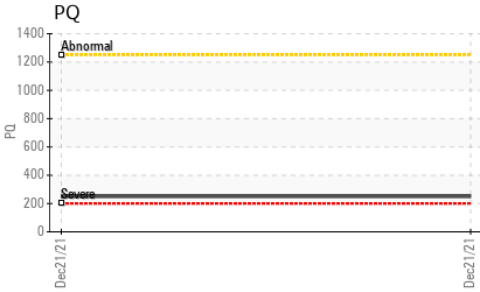
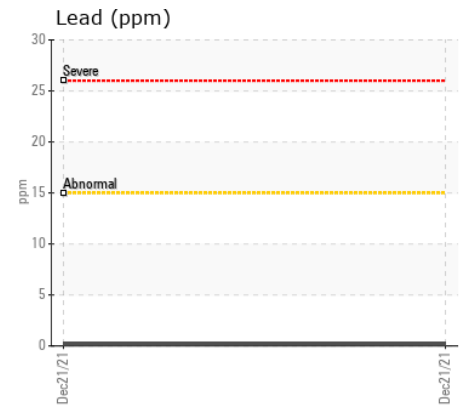
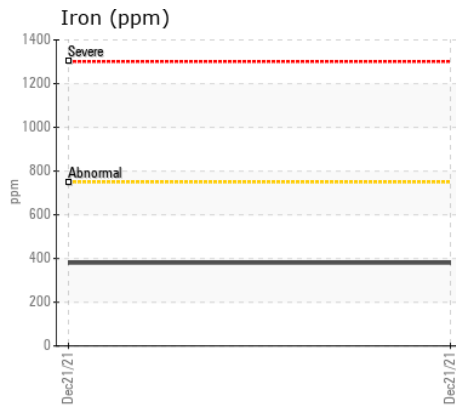
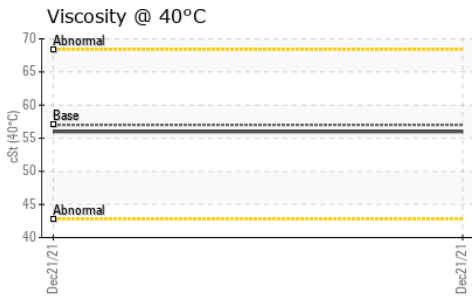
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.075	NEG	---	---
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	>0.075	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	12	---	---
Boron	ppm	ASTM D5185m	6	119	---	---
Barium	ppm	ASTM D5185m	0	<1	---	---
Molybdenum	ppm	ASTM D5185m	0	<1	---	---
Manganese	ppm	ASTM D5185m		7	---	---
Magnesium	ppm	ASTM D5185m	145	12	---	---
Calcium	ppm	ASTM D5185m	3570	3339	---	---
Phosphorus	ppm	ASTM D5185m	1290	1104	---	---
Zinc	ppm	ASTM D5185m	1640	1374	---	---
Sulfur	ppm	ASTM D5185m		3480	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	56.0	---	---



Certificate L2367

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

Sample No. : JR0112663

Lab Number : 05437281

Unique Number : 9801474

Test Package : MOBCE (Additional Tests: PQ)

Received : 05 Jan 2022

Tested : 06 Jan 2022

Diagnosed : 06 Jan 2022 - Jonathan Hester

JRE - ELIZABETH CITY

129 KNOBBS CREEK DR

ELIZABETH CITY, NC

US 27909

Contact: CHARLES PARKER

charles.parker@jamesriverequipment.com

T: (252)333-2280

F:

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)