



Area
[01-80240]
Machine Id
JOHN DEERE 250D 638351
Component
3 Axle
Fluid
{not provided} (--- 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 recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

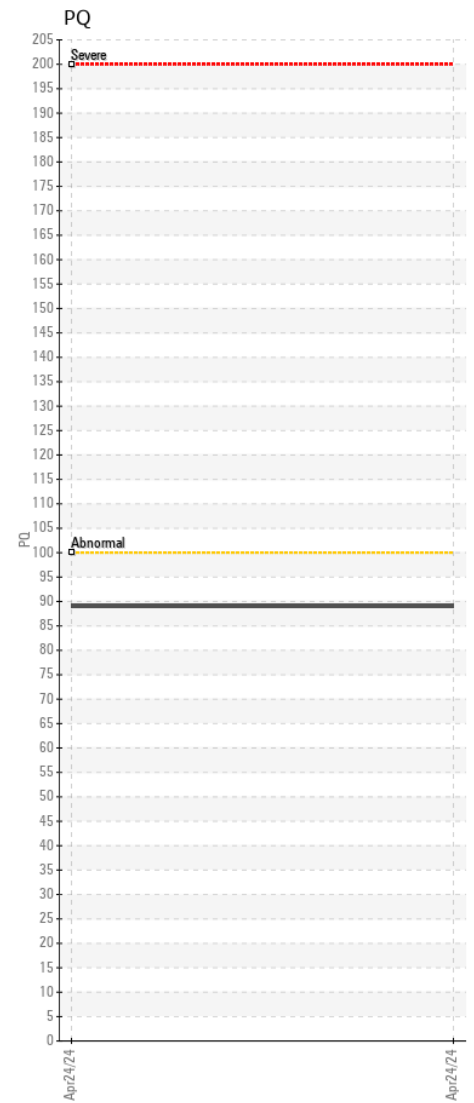
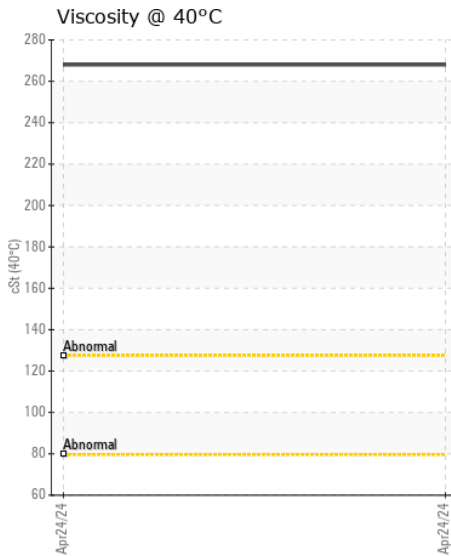
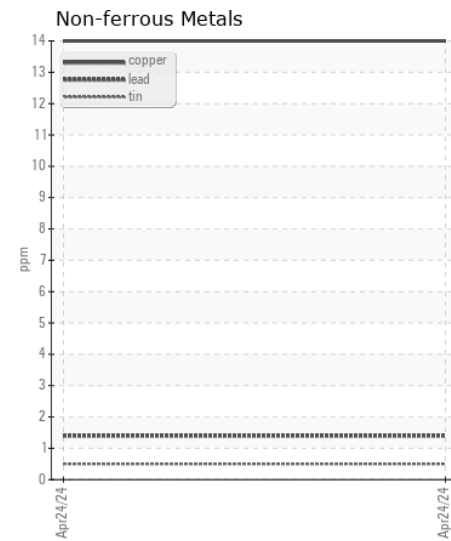
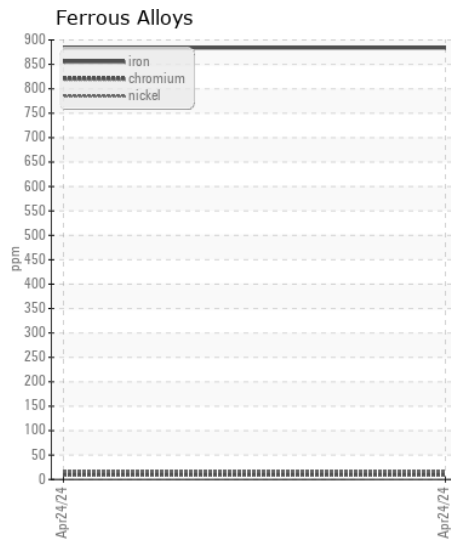
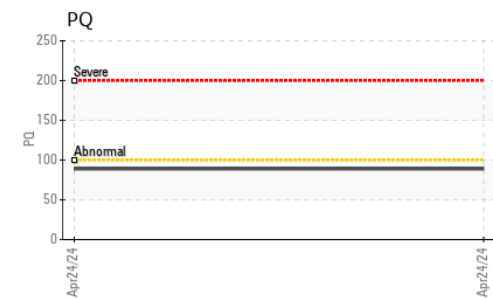
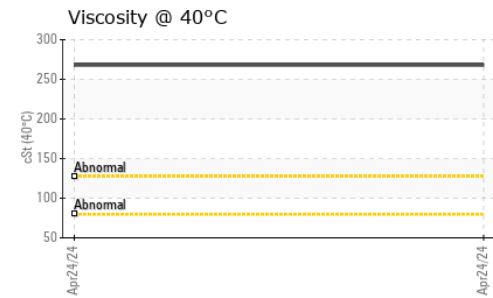
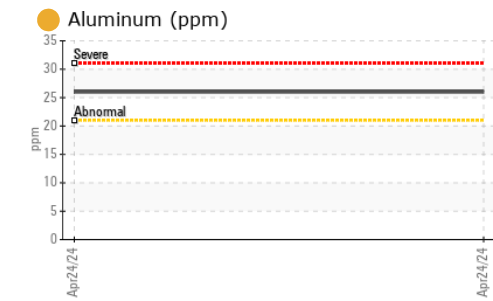
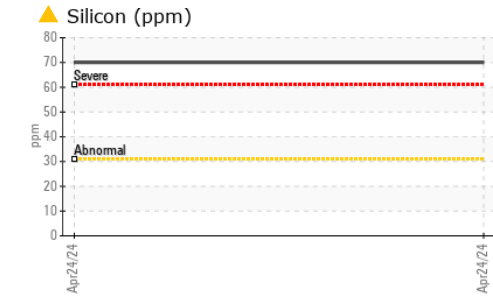
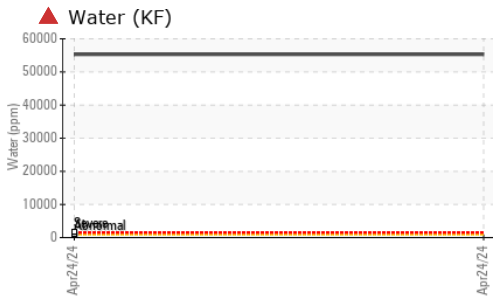
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0170711	---	---
Sample Date		Client Info		24 Apr 2024	---	---
Machine Age	hrs	Client Info		6727	---	---
Oil Age	hrs	Client Info		500	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		89	---	---
Iron	ppm	ASTM D5185m	>601	884	---	---
Chromium	ppm	ASTM D5185m	>11	10	---	---
Nickel	ppm	ASTM D5185m	>10	16	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>21	26	---	---
Lead	ppm	ASTM D5185m	>49	1	---	---
Copper	ppm	ASTM D5185m	>21	14	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>31	70	---	---
Potassium	ppm	ASTM D5185m	>20	7	---	---
Water	%	ASTM D6304	>0.1	5.53	---	---
ppm Water	ppm	ASTM D6304	>1000	55300	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---
Sodium	ppm	ASTM D5185m	>51	7	---	---
Boron	ppm	ASTM D5185m		80	---	---
Barium	ppm	ASTM D5185m		1	---	---
Molybdenum	ppm	ASTM D5185m		61	---	---
Manganese	ppm	ASTM D5185m		8	---	---
Magnesium	ppm	ASTM D5185m		11	---	---
Calcium	ppm	ASTM D5185m		38	---	---
Phosphorus	ppm	ASTM D5185m		1779	---	---
Zinc	ppm	ASTM D5185m		91	---	---
Sulfur	ppm	ASTM D5185m		25279	---	---
Visc @ 40°C	cSt	ASTM D445		268	---	---



Certificate L2367

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

Sample No. : JR0170711

Lab Number : 06160612

Unique Number : 10996035

Test Package : CONST (Additional Tests: KF, PQ)

Received : 25 Apr 2024

Tested : 26 Apr 2024

Diagnosed : 27 Apr 2024 - Don Baldrige

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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