



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644 P 1DW644PALPLX18577
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214772	---	---
Sample Date		Client Info		23 May 2024	---	---
Machine Age	hrs	Client Info		457	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The lead level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		16	---	---
Iron	ppm	ASTM D5185m	>500	67	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	0	---	---
Lead	ppm	ASTM D5185m	>25	▲ 56	---	---
Copper	ppm	ASTM D5185m	>100	72	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

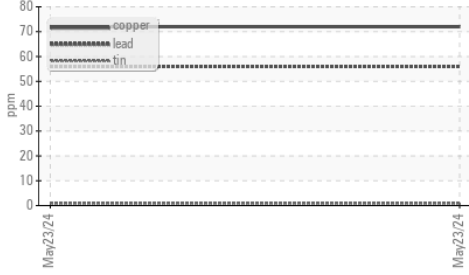
Silicon	ppm	ASTM D5185m	>75	6	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water		WC Method	>.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>.2	NEG	---	---

FLUID CONDITION

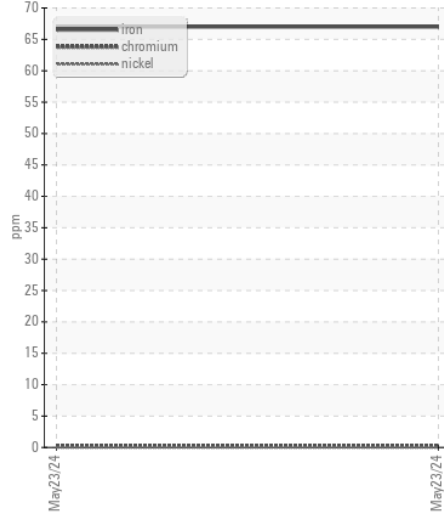
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		7	---	---
Boron	ppm	ASTM D5185m	6	10	---	---
Barium	ppm	ASTM D5185m	0	4	---	---
Molybdenum	ppm	ASTM D5185m	0	6	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m	145	100	---	---
Calcium	ppm	ASTM D5185m	3570	3368	---	---
Phosphorus	ppm	ASTM D5185m	1290	1101	---	---
Zinc	ppm	ASTM D5185m	1640	1211	---	---
Sulfur	ppm	ASTM D5185m		4864	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	54.4	---	---

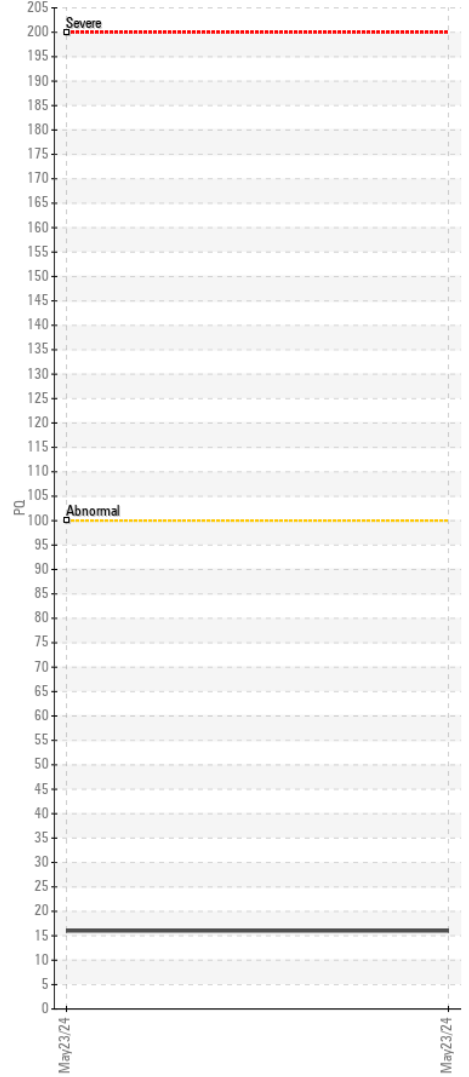
▲ Non-ferrous Metals



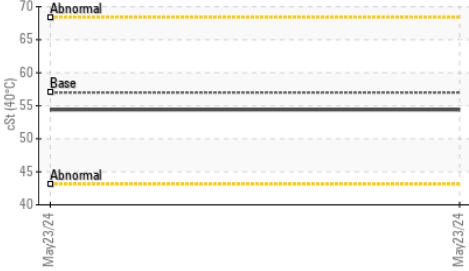
Ferrous Alloys



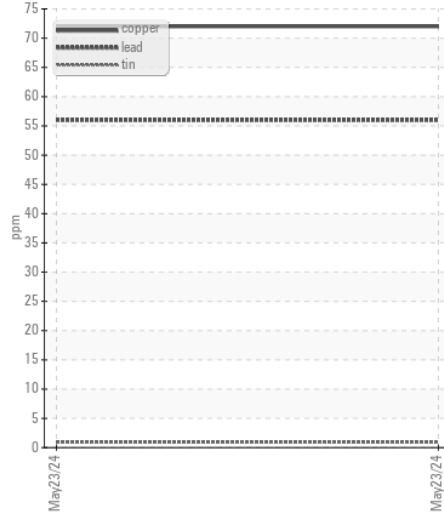
PQ



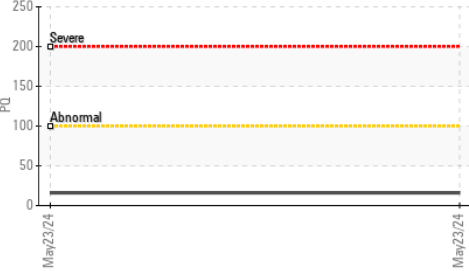
Viscosity @ 40°C



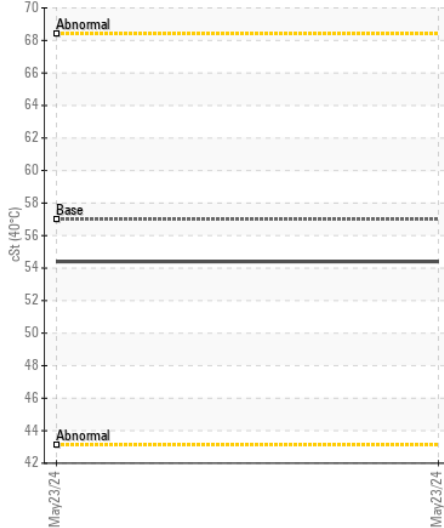
▲ Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

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

Sample No. : JR0214772

Lab Number : 06196953

Unique Number : 11059076

Test Package : CONST (Additional Tests: PQ)

Received : 31 May 2024

Tested : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Sean Felton

CWS-STRITTMATTER

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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)