



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZVKF695495
Component
Transmission (Manual)
Fluid
NEPTUNE AW 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213396	JR0127609	---
Sample Date		Client Info		08 May 2024	27 Jul 2022	---
Machine Age	hrs	Client Info		7035	5034	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	13	22	---
Iron	ppm	ASTM D5185m	>200	32	32	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>7	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	2	---
Lead	ppm	ASTM D5185m	>45	1	<1	---
Copper	ppm	ASTM D5185m	>225	6	8	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

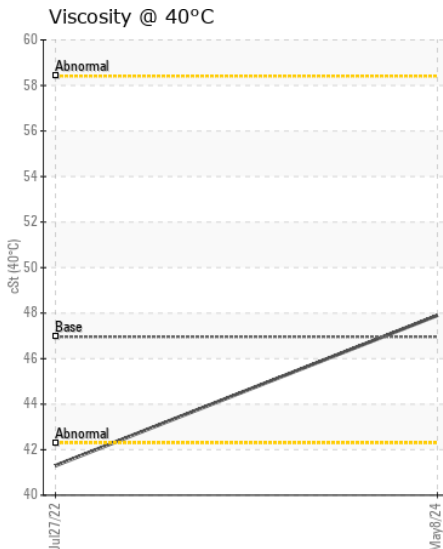
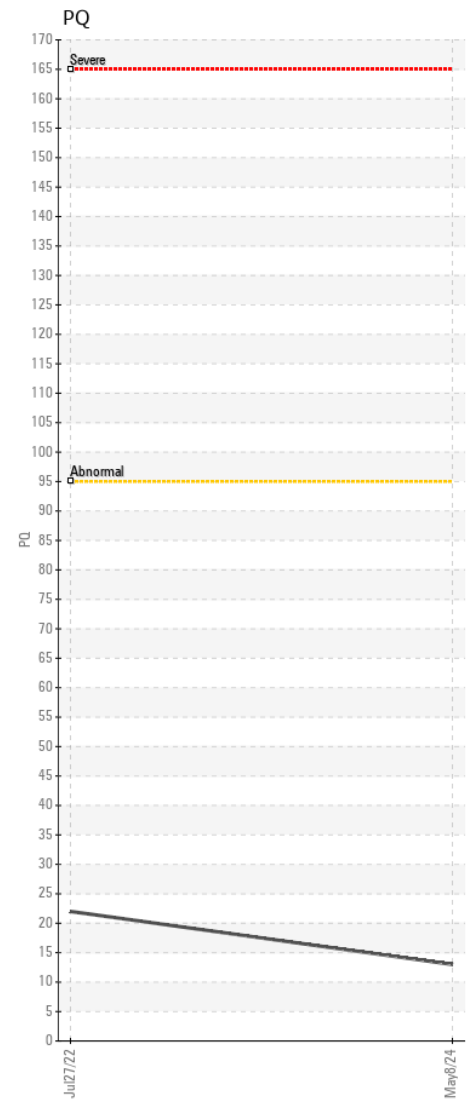
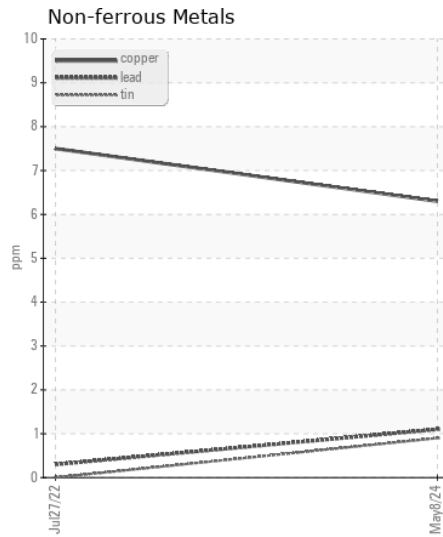
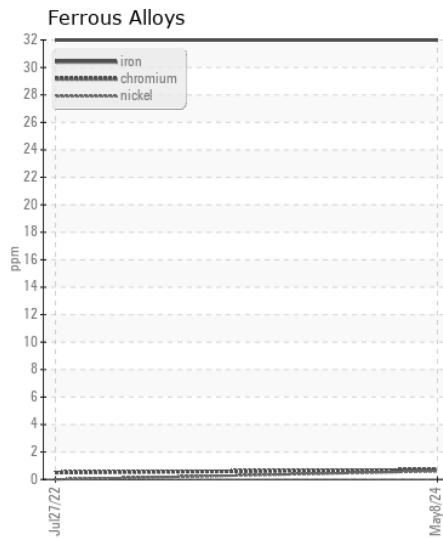
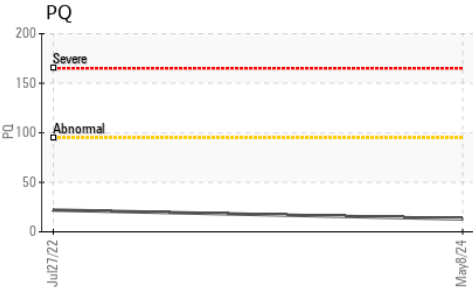
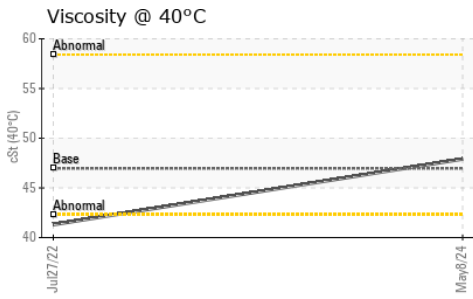
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	16	22	---
Potassium	ppm	ASTM D5185m	>20	4	4	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	17	---
Boron	ppm	ASTM D5185m		22	15	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		18	1	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		131	81	---
Calcium	ppm	ASTM D5185m		2917	2814	---
Phosphorus	ppm	ASTM D5185m		1054	982	---
Zinc	ppm	ASTM D5185m		1181	1187	---
Sulfur	ppm	ASTM D5185m		3871	4040	---
Visc @ 40°C	cSt	ASTM D445	46.96	47.9	41.3	---



Certificate L2367

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

Sample No. : JR0213396

Lab Number : 06174090

Unique Number : 11020143

Test Package : CONST (Additional Tests: PQ)

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 12 May 2024 - Don Baldrige

JRE - GREENSBORO

411 SOUTH REGIONAL ROAD

GREENSBORO, NC

US 27409

Contact: JUSTIN WILLIAMS

justin.williams@jamesriverequipment.com

T: (336)668-2762

F: (336)665-9556

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)