



# CONSTRUCTION EQUIPMENT

## 363 JOHN DEERE 814432 - HYDRAULIC SYSTEM



**Sample No:** VCP397815  
**Oil Type:** SHELL TELLUS S2 MX 46  
**Job No:** 363



### SAMPLE INFORMATION

Sample Number	<b>VCP397815</b>	VCP366638	VCP310974	---
Sample Date	<b>10 May 2024</b>	04 Apr 2022	05 Apr 2021	---
Machine Hours	<b>6701</b>	3105	1507	---
Oil Hours	<b>1000</b>	1000	1507	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.9</b>	47.1	47.2	---
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.32	0.165	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>▲ 8338</b>	▲ 18604	---	---
Particles >6µm		<b>▲ 2663</b>	● 1383	---	---
Particles >14µm		<b>▲ 312</b>	■ 107	---	---
ISO 4406:1999 (c)		<b>20/19/15</b>	21/18/14	---	---
Silicon	ppm	<b>3</b>	1	2	---
Sodium	ppm	<b>&lt;1</b>	<1	0	---
Potassium	ppm	<b>2</b>	0	<1	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>7</b>	12	4	---
Copper	ppm	<b>1</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>1</b>	1	0	---
Chromium	ppm	<b>&lt;1</b>	0	0	---
Molybdenum	ppm	<b>2</b>	<1	<1	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>1</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	0	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>409</b>	36	4	---
Magnesium	ppm	<b>27</b>	1	0	---
Zinc	ppm	<b>264</b>	88	9	---
Phosphorus	ppm	<b>287</b>	536	539	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	0	<1	---

**Depot:** TOTGAI  
**Unique No:** 11056736  
**Signed:** Don Baldrige  
**Report Date:** 31 May 2024

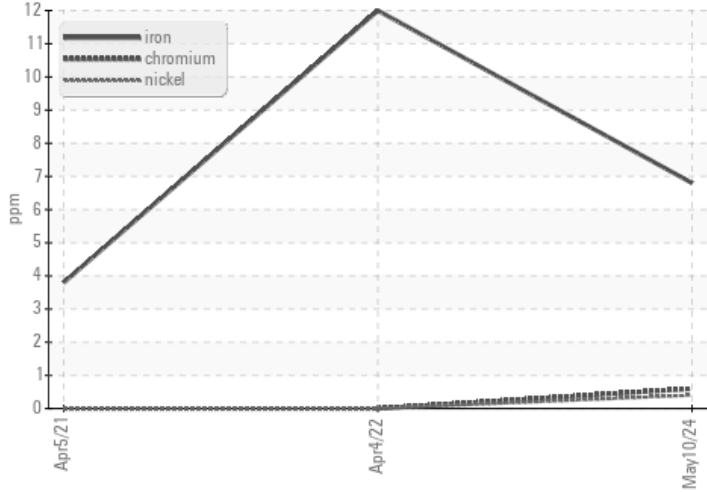


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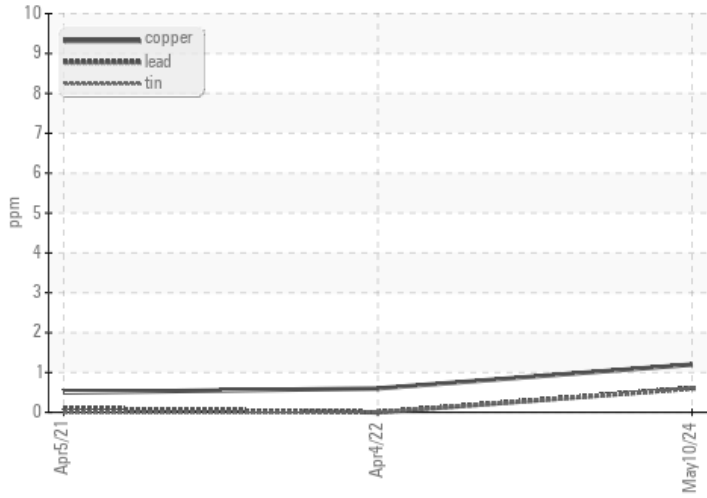


## GRAPHS

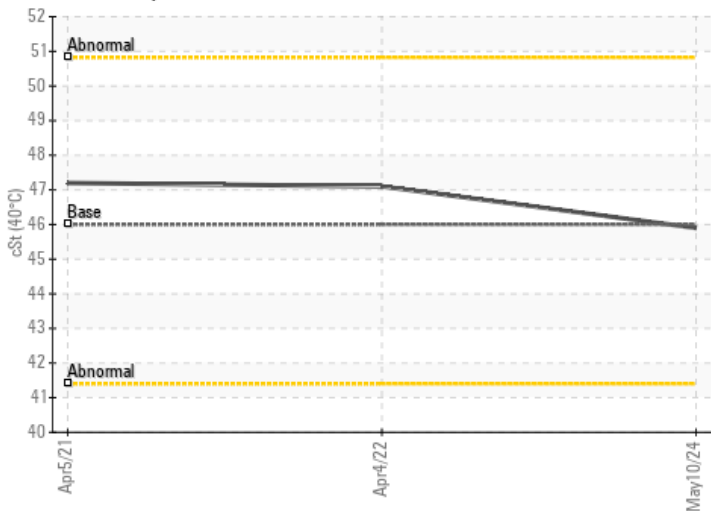
### Ferrous Alloys



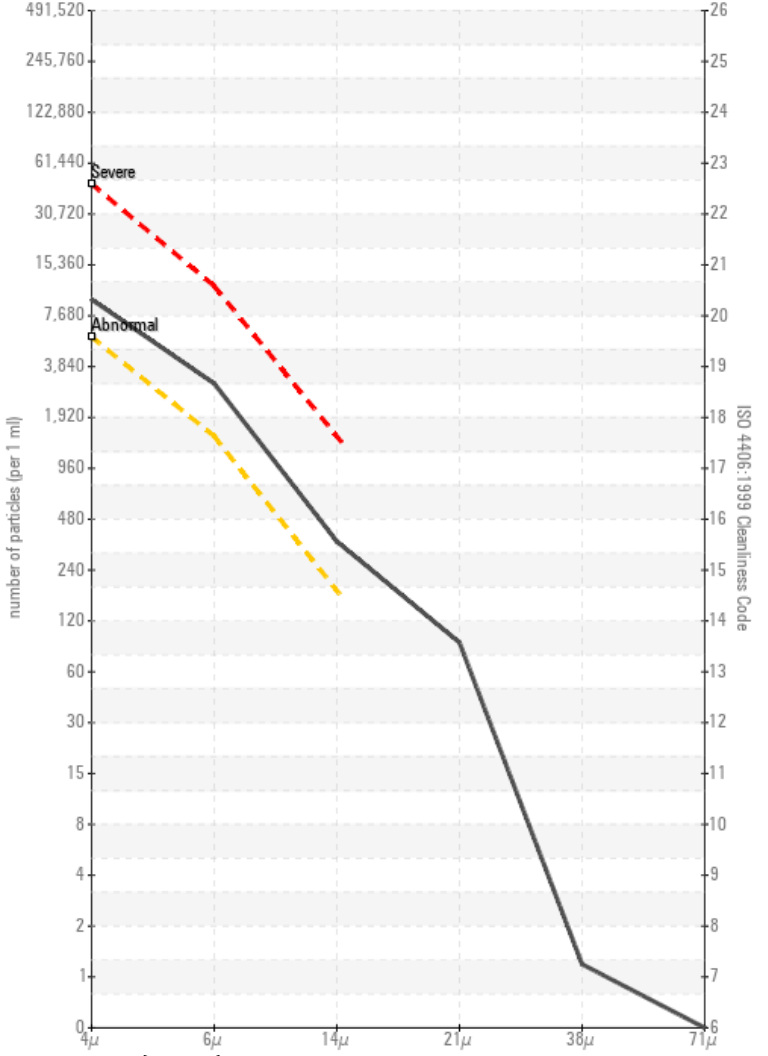
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

