



CONSTRUCTION EQUIPMENT

D13222 WM AI RECYC JOHN DEERE 544K 640193 - HYDRAULIC SYSTEM



Sample No: VCE049449
Oil Type: JOHN DEERE HYDRAU
Job No: D13222 WM AI RECYC



SAMPLE INFORMATION

Sample Number	VCE049449	VCP382374	---	---
Sample Date	22 Jan 2024	28 Nov 2022	---	---
Machine Hours	13486	13151	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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 13001 W SILVERE SPRING DR
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OIL CONDITION

Visc @ 40°C	cSt	49.9	48.3	---	---
Acid Number (AN)	mg KOH/g	1.67	1.11	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		7696	319	---	---
Particles >6µm		1707	69	---	---
Particles >14µm		131	9	---	---
ISO 4406:1999 (c)		20/18/14	15/13/10	---	---
Silicon	ppm	4	4	---	---
Sodium	ppm	6	9	---	---
Potassium	ppm	3	0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	7	6	---	---
Copper	ppm	6	5	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	19	19	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	2164	2182	---	---
Magnesium	ppm	99	98	---	---
Zinc	ppm	1046	1040	---	---
Phosphorus	ppm	894	833	---	---
Barium	ppm	0	0	---	---
Boron	ppm	25	24	---	---

Depot: VOLVO0069
Unique No: 10848234
Signed: Don Baldrige
Report Date: 30 Jan 2024

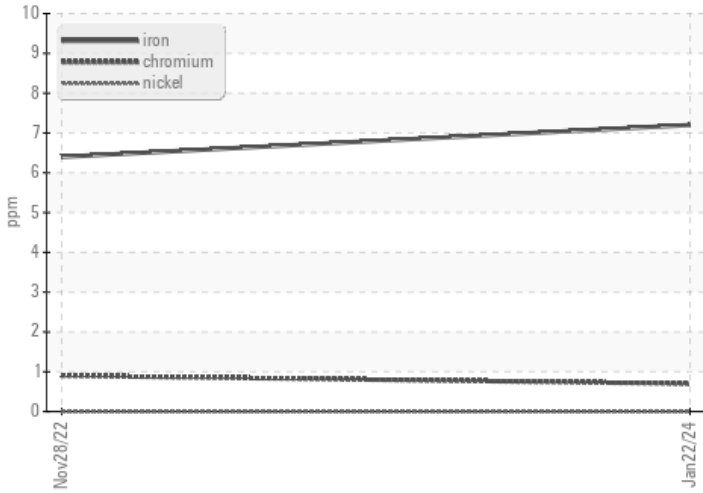


CONSTRUCTION EQUIPMENT

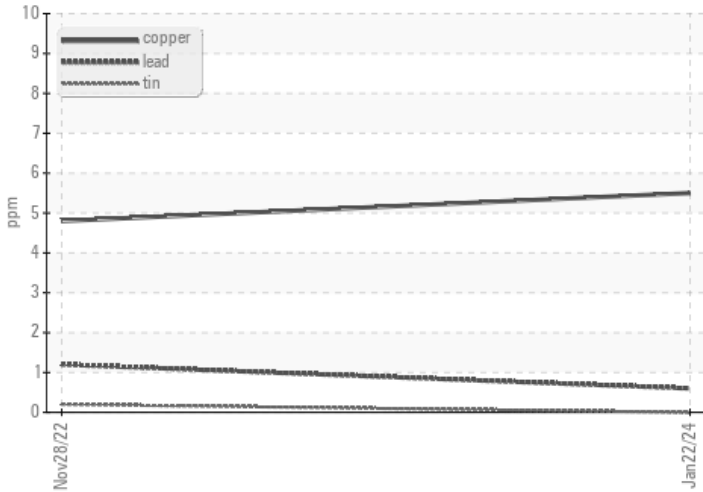


GRAPHS

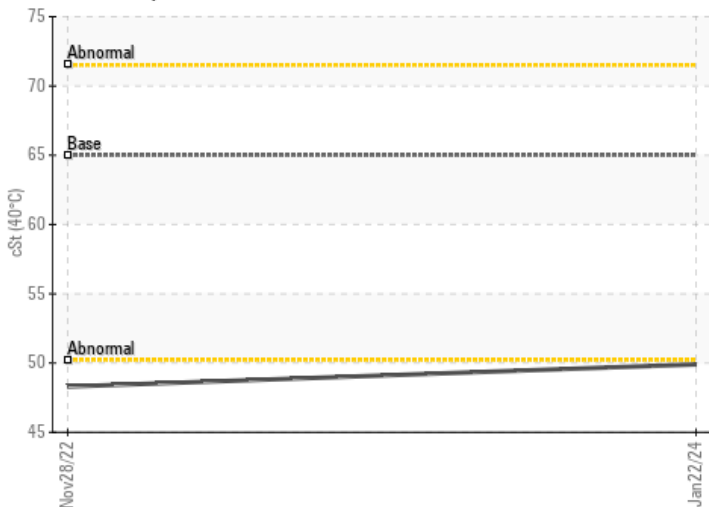
Ferrous Alloys



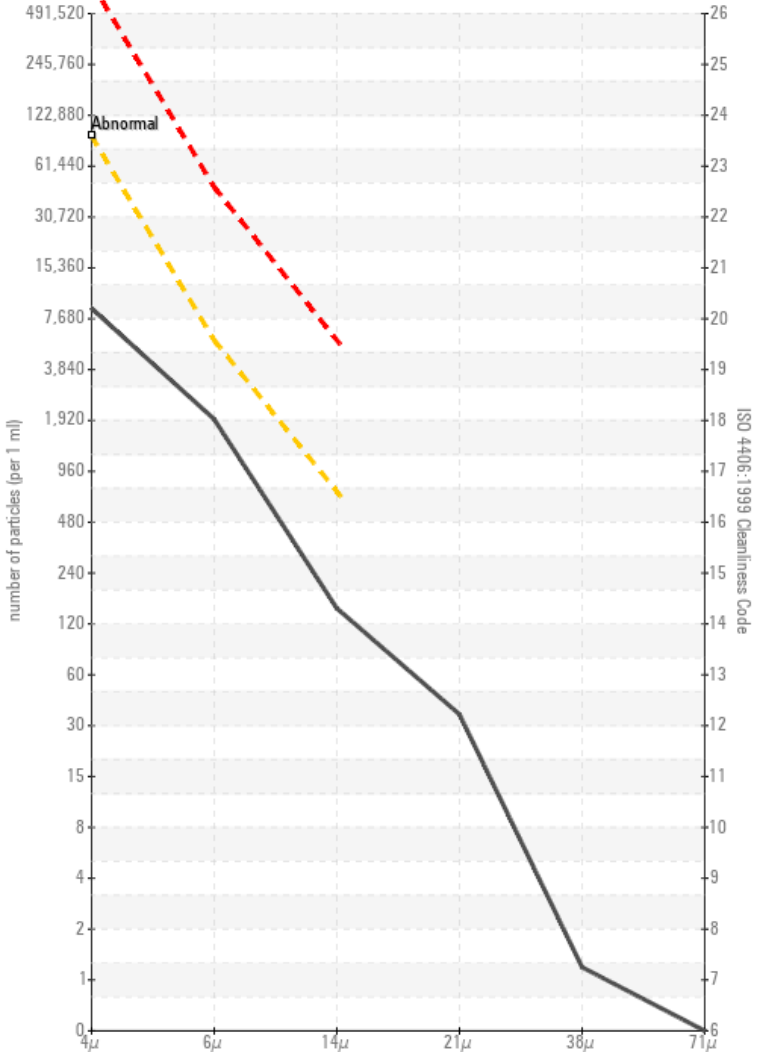
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

