



CONSTRUCTION EQUIPMENT

351 JOHN DEERE 350G 811711 - HYDRAULIC SYSTEM



Sample No: VCP396777
Oil Type: SHELL TELLUS S2 MX 46
Job No: 351



SAMPLE INFORMATION

Sample Number	VCP396777	VCP231102	VCP217353	---
Sample Date	05 Jul 2023	05 Oct 2018	18 Oct 2017	---
Machine Hours	10120	3006	1321	---
Oil Hours	250	1000	1321	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	46.4	45.67	46.11	---
Acid Number (AN)	mg KOH/g	0.40	0.337	0.149	---



CONTAMINATION

Particles >4µm		4679	24224	17294	---
Particles >6µm		49	2127	1565	---
Particles >14µm		4	86	74	---
ISO 4406:1999 (c)		19/13/9	22/18/14	21/18/13	---
Silicon	ppm	5	1	2	---
Sodium	ppm	<1	0	0	---
Potassium	ppm	0	0	6	---



WEAR METALS

Iron	ppm	9	8	4	---
Copper	ppm	2	1	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	1	<1	---
Chromium	ppm	9	0	0	---
Molybdenum	ppm	5	<1	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	172	32	3	---
Magnesium	ppm	54	0	0	---
Zinc	ppm	▲ 264	100	18	---
Phosphorus	ppm	413	434	520	---
Barium	ppm	0	0	0	---
Boron	ppm	4	<1	<1	---



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Diagnosis

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Depot: TOTGAI
Unique No: 10560643
Signed: Jonathan Hester
Report Date: 18 Jul 2023

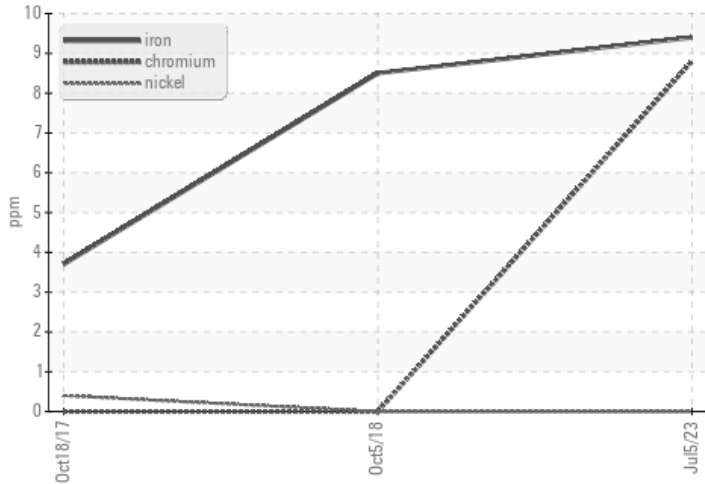


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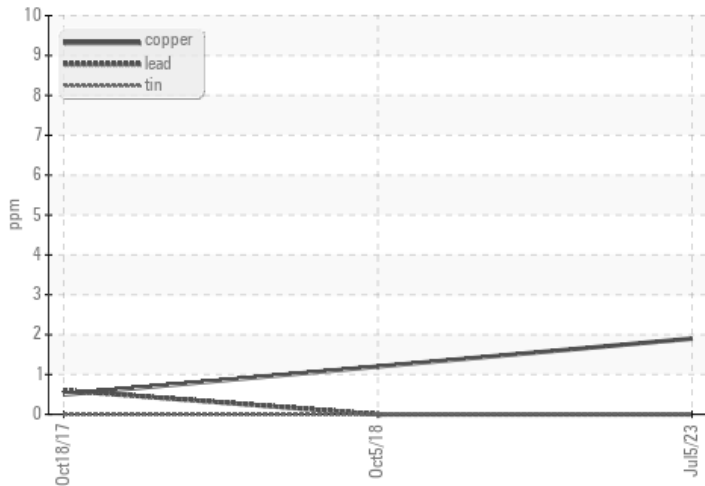


GRAPHS

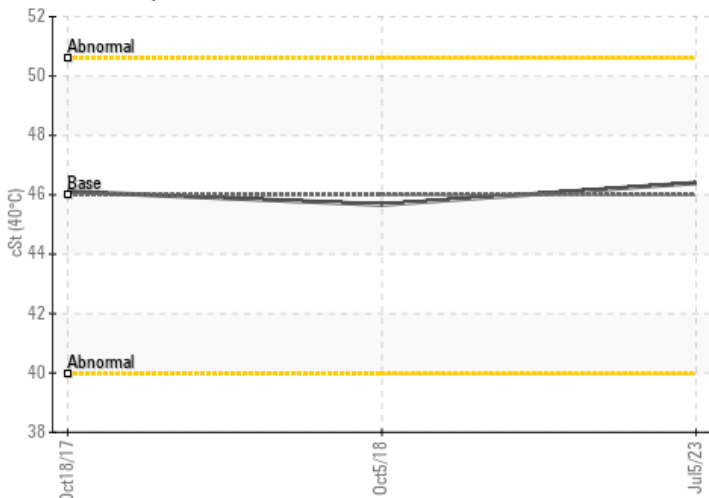
Ferrous Alloys



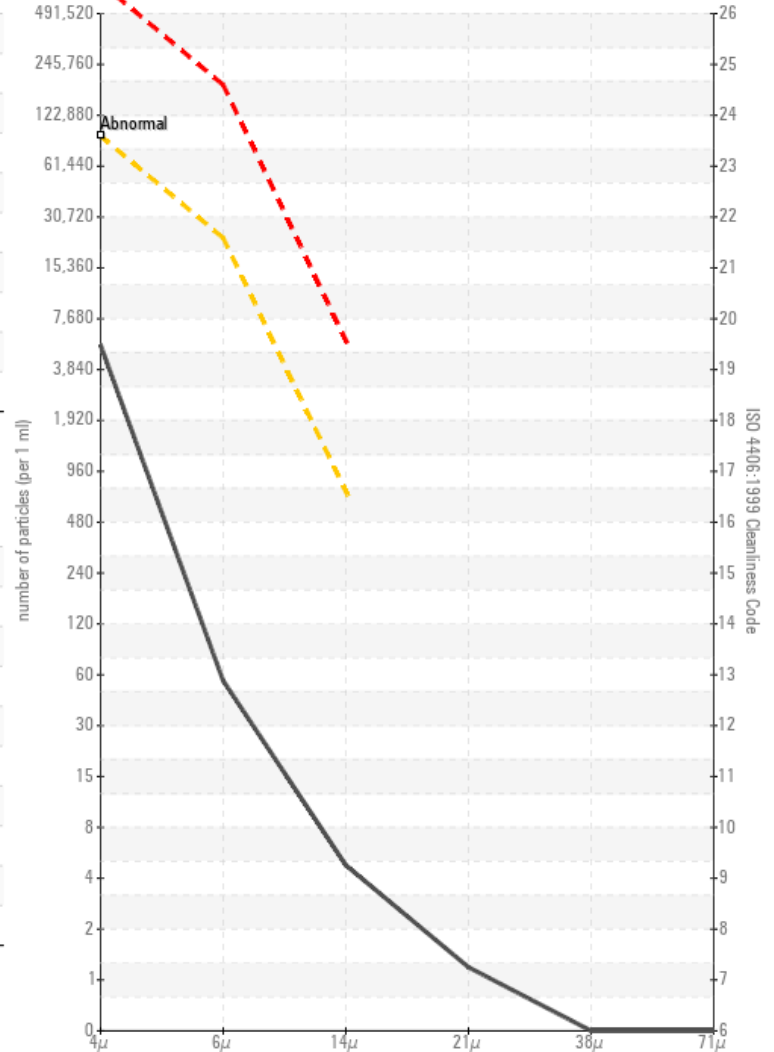
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

