



CONSTRUCTION EQUIPMENT

SPM567738 KOMATSU PC490 A42 178 - HYDRAULIC SYSTEM



Sample No: VCP409234
Oil Type: AW HYDRAULIC OIL ISO 10
Job No: SPM567738



SAMPLE INFORMATION

Sample Number	VCP409234	---	---	---
Sample Date	30 Jun 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

JOHN KENO & CO
 750 RICARD LN
 ELK GROVE VILLAGE, IL
 US 60007
 Contact: LUKAS DECKER
 ldecker@johnkeno.com
 T: (847)340-2432
 F:



OIL CONDITION

Visc @ 40°C	cSt	▲ 58.4	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.86	---	---	---



CONTAMINATION

Particles >4µm		▲ 35679	---	---	---
Particles >6µm		▲ 4140	---	---	---
Particles >14µm		■ 151	---	---	---
ISO 4406:1999 (c)		22/19/14	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ <1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	▲ 24	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ 6	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 636	---	---	---
Magnesium	ppm	■ 3	---	---	---
Zinc	ppm	■ 205	---	---	---
Phosphorus	ppm	■ 383	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

Depot: JOHELK
Unique No: 10548648
Signed: Jonathan Hester
Report Date: 13 Jul 2023

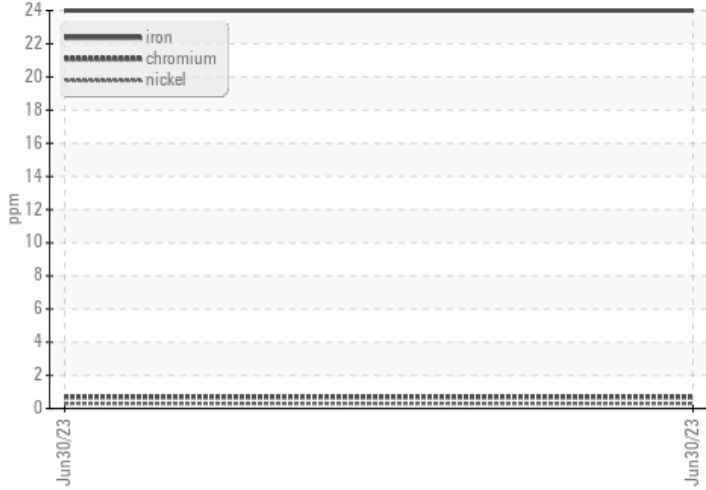


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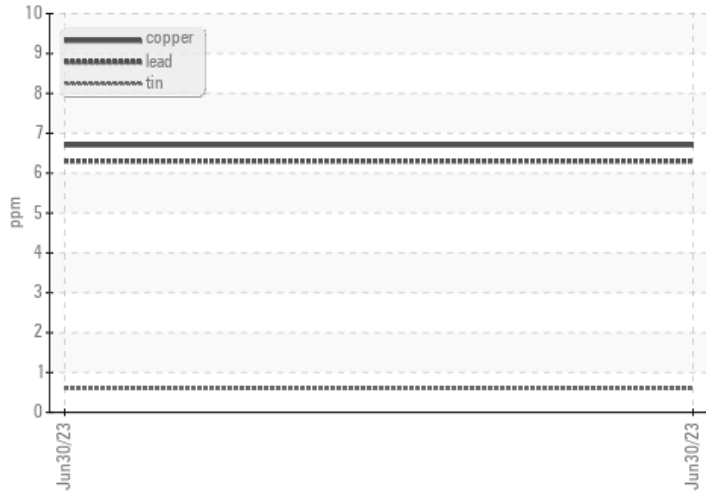


GRAPHS

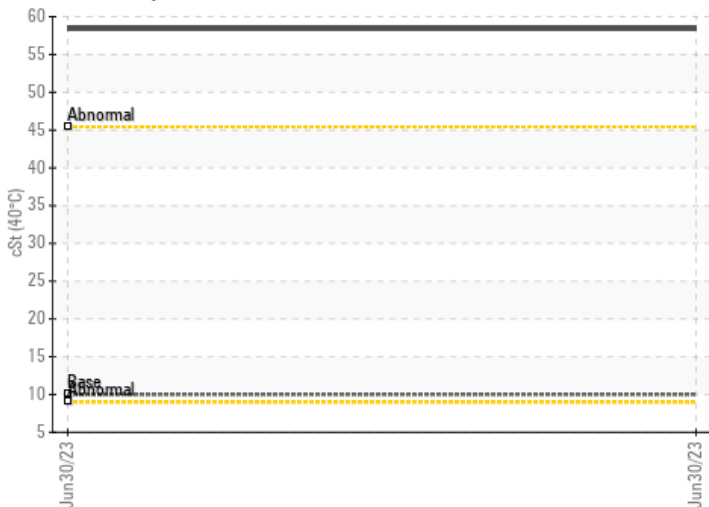
▲ Ferrous Alloys



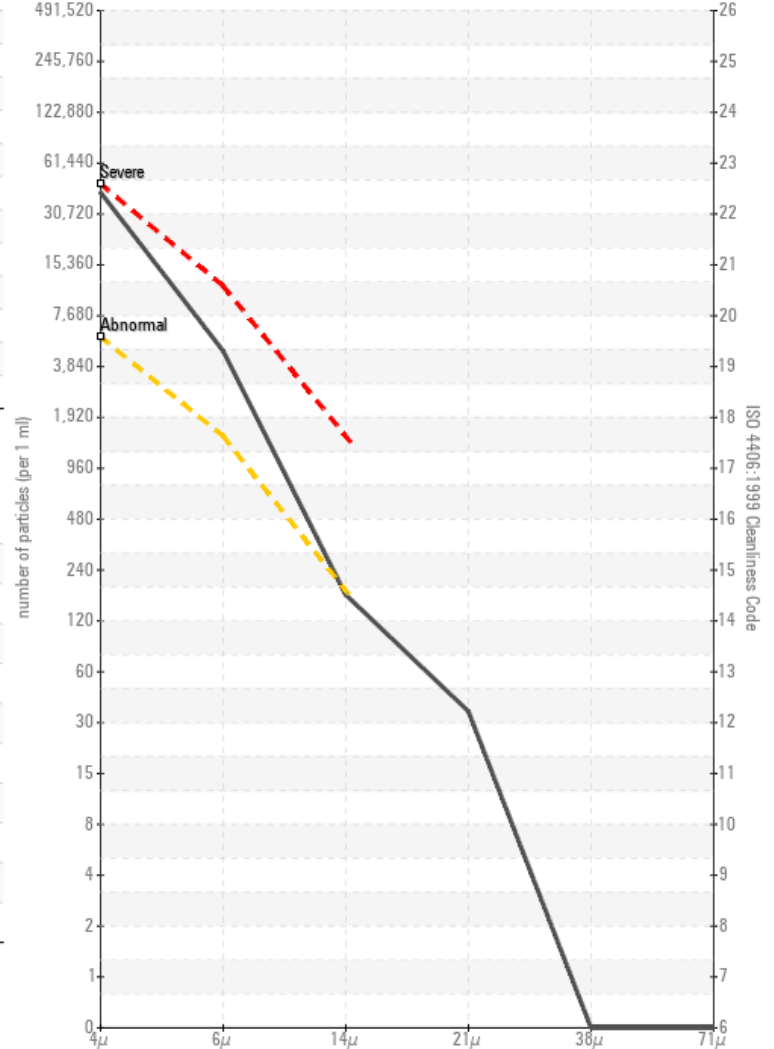
Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Particle Count



Acid Number

