



CONSTRUCTION EQUIPMENT

SWO-069177 TAKEUCHI TL6 406001662 - HYDRAULIC SYSTEM



Sample No: VCP444464
Oil Type: {unknown}
Job No: SWO-069177



SAMPLE INFORMATION

Sample Number	VCP444464	VCP380774	VCP372957	VCP357813
Sample Date	20 Feb 2024	10 Jan 2023	10 Jul 2022	29 Mar 2022
Machine Hours	3140	3027	2241	1812
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 40°C	cSt	70.5	72.8	80.3	69.3
Acid Number (AN)	mg KOH/g	1.26	2.68	1.50	1.18



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 167956	▲ 244471	▲ 91118	---
Particles >6µm		▲ 53918	▲ 90193	▲ 12359	---
Particles >14µm		■ 17	▲ 2478	▲ 379	---
ISO 4406:1999 (c)		25/23/11	25/24/18	24/21/16	---
Silicon	ppm	▲ 72	■ 13	■ 10	■ 19
Sodium	ppm	■ 0	■ 2	■ 1	■ 4
Potassium	ppm	■ 2	■ <1	■ 0	■ 6



WEAR METALS

Iron	ppm	▲ 273	▲ 29	■ 6	■ 19
Copper	ppm	■ 14	■ 26	■ 7	■ 33
Lead	ppm	■ <1	■ 2	■ <1	■ 2
Tin	ppm	■ <1	■ 2	■ <1	■ 2
Aluminum	ppm	● 22	■ 4	■ 2	■ 10
Chromium	ppm	■ 2	■ <1	■ <1	■ <1
Molybdenum	ppm	47	62	79	3
Nickel	ppm	■ 0	■ <1	0	0
Titanium	ppm	1	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	956	1101	1286	1942
Magnesium	ppm	732	782	739	605
Zinc	ppm	997	1073	1106	768
Phosphorus	ppm	811	904	948	727
Barium	ppm	<1	0	0	0
Boron	ppm	8	75	197	95

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: WHIGUN
Unique No: 10899784
Signed: Jonathan Hester
Report Date: 29 Feb 2024

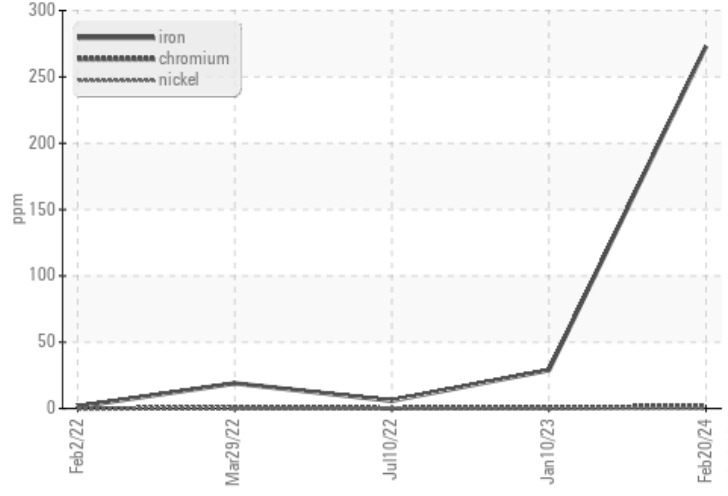


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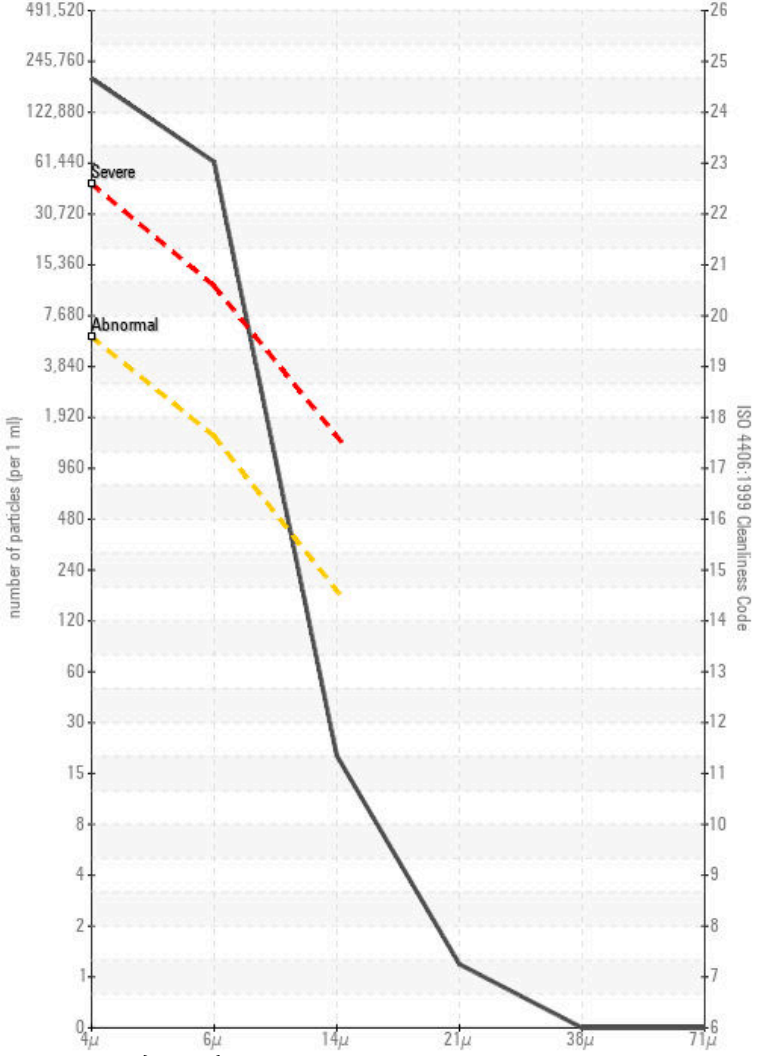


GRAPHS

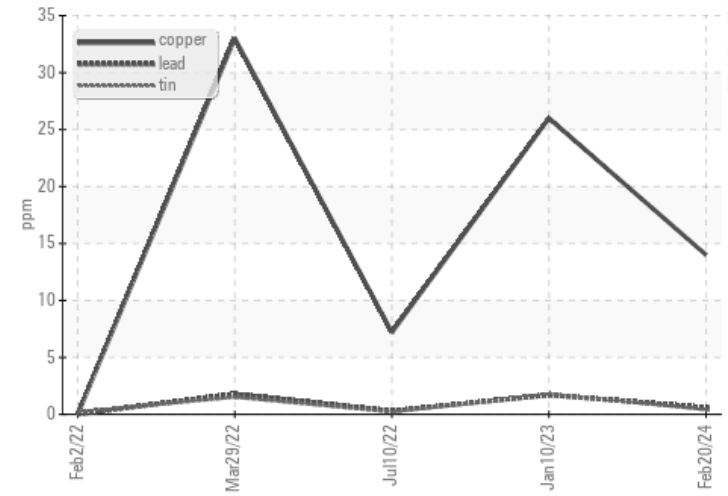
▲ Ferrous Alloys



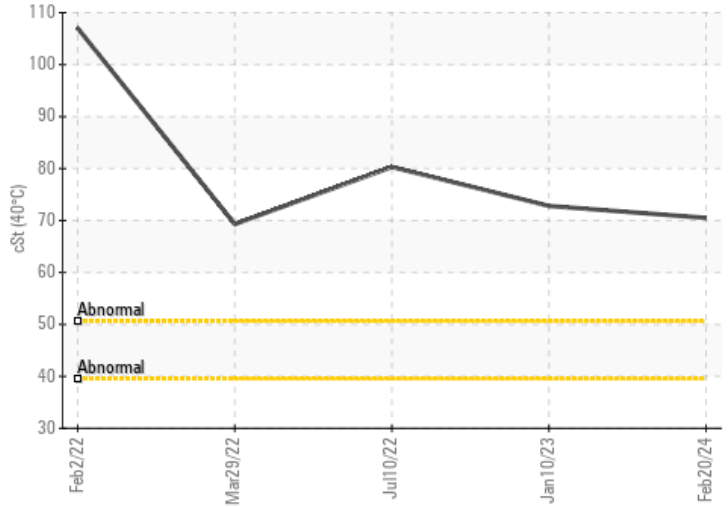
▲ Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

