



CONSTRUCTION EQUIPMENT

SWO-066611 EPIROC TMG21 SED0346 - HYDRAULIC SYSTEM



Sample No: VCP429586
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066611



SAMPLE INFORMATION

Sample Number	VCP429586	VCP433250	VCP369321	VCP407512
Sample Date	10 Oct 2023	05 Sep 2023	26 Jul 2023	24 May 2023
Machine Hours	4260	4067	3837	3531
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	49.0	48.4	49.9	49.9
Acid Number (AN)	mg KOH/g	0.63	0.56	0.57	0.49



CONTAMINATION

Particles >4µm		1350	2230	22639	34258
Particles >6µm		231	585	7197	11943
Particles >14µm		18	43	299	523
ISO 4406:1999 (c)		18/15/11	18/16/13	22/20/15	22/21/16
Silicon	ppm	4	4	4	4
Sodium	ppm	0	<1	2	<1
Potassium	ppm	0	0	<1	<1

Diagnosis

Resample at the next service interval to monitor. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	7	5	5	4
Copper	ppm	3	2	2	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	<1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	<1	<1	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	96	110	94	100
Magnesium	ppm	51	50	11	10
Zinc	ppm	613	616	541	564
Phosphorus	ppm	420	467	368	390
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10698467
Signed: Don Baldrige
Report Date: 19 Oct 2023

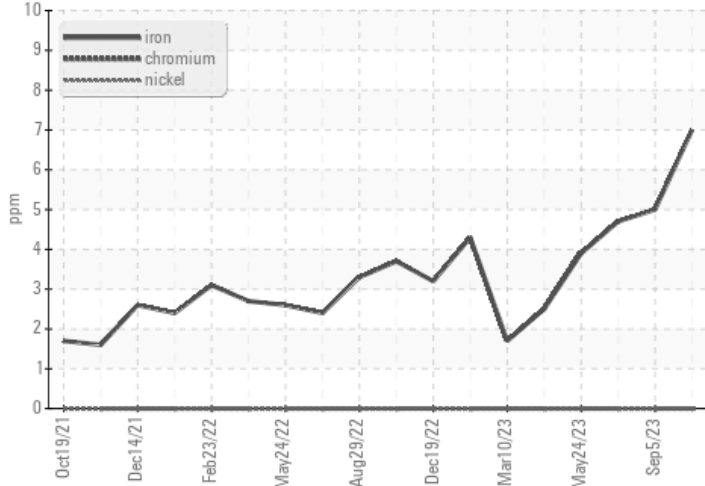


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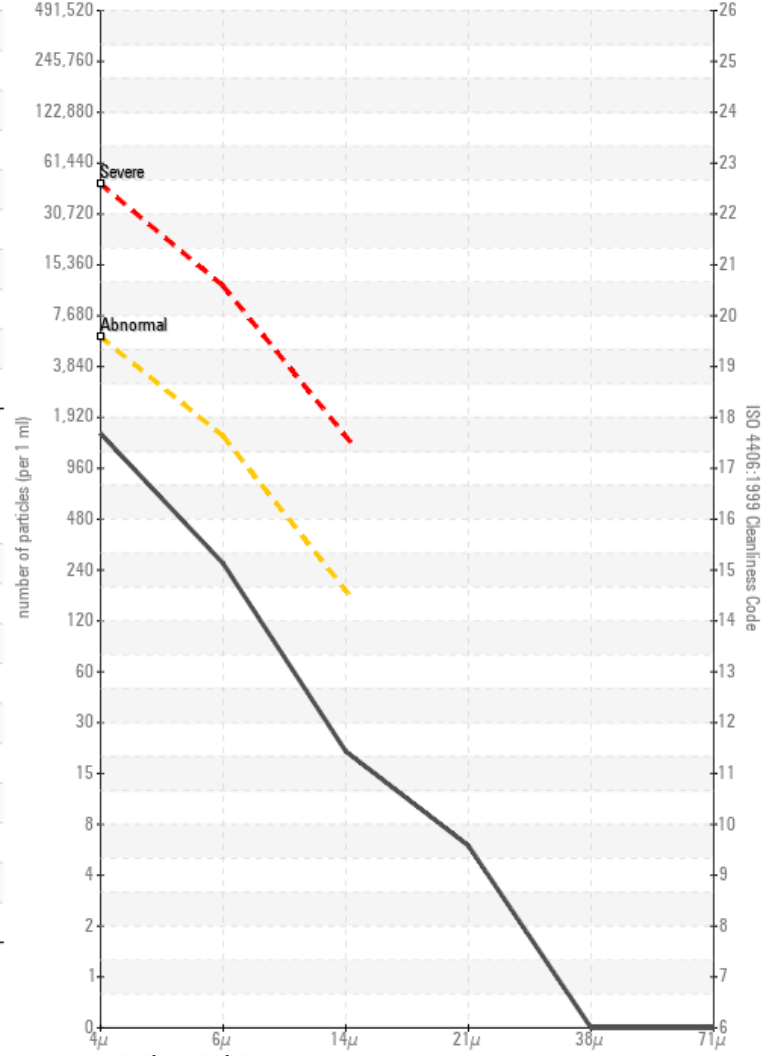


GRAPHS

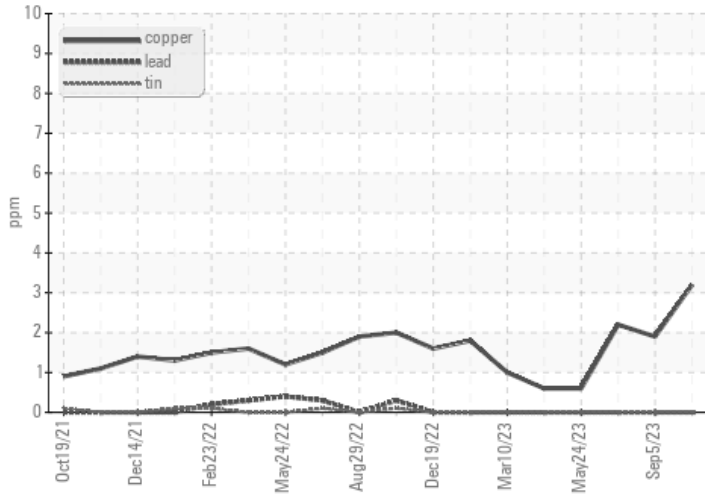
Ferrous Alloys



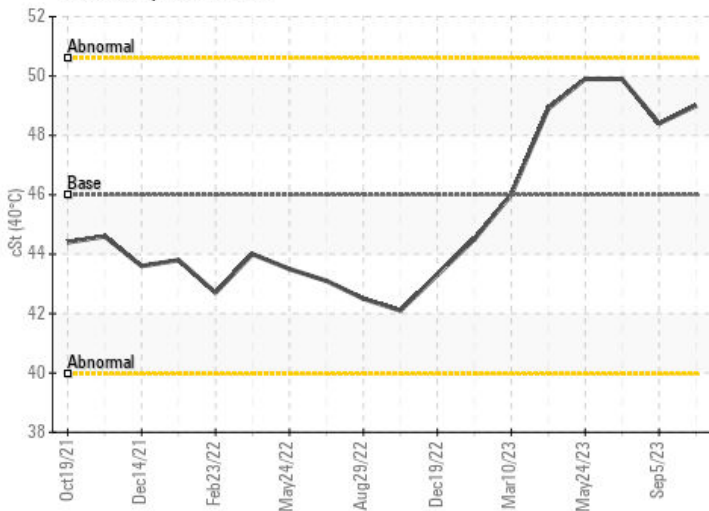
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

