



CONSTRUCTION EQUIPMENT

SWO-068392 EPIROC TMG21 SED0346 - HYDRAULIC SYSTEM



Sample No: VCP414812
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068392



SAMPLE INFORMATION

Sample Number	VCP414812	VCP445755	VCP429586	VCP433250
Sample Date	20 Dec 2023	14 Nov 2023	10 Oct 2023	05 Sep 2023
Machine Hours	4779	4528	4260	4067
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	46.4	47.2	49.0	48.4
Acid Number (AN)	mg KOH/g	0.68	0.59	0.63	0.56



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1849	27927	1350	2230
Particles >6µm		598	8779	231	585
Particles >14µm		29	276	18	43
ISO 4406:1999 (c)		18/16/12	22/20/15	18/15/11	18/16/13
Silicon	ppm	8	6	4	4
Sodium	ppm	<1	0	0	<1
Potassium	ppm	0	0	0	0

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	4	4	7	5
Copper	ppm	2	2	3	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	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	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	95	86	96	110
Magnesium	ppm	143	80	51	50
Zinc	ppm	697	617	613	616
Phosphorus	ppm	544	455	420	467
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10809375
Signed: Don Baldrige
Report Date: 03 Jan 2024

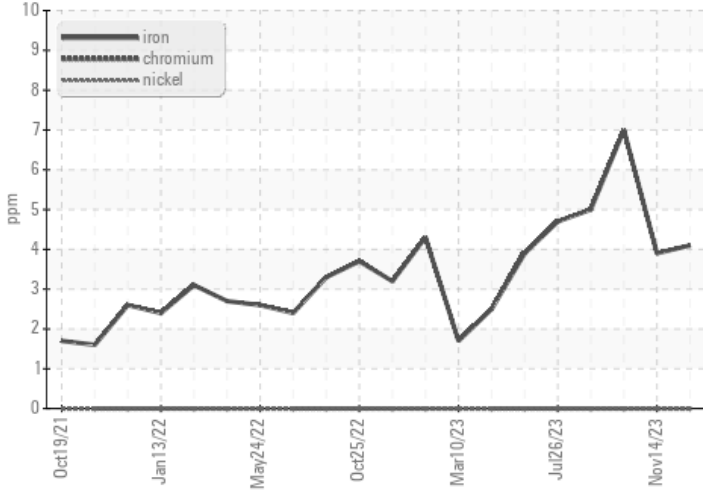


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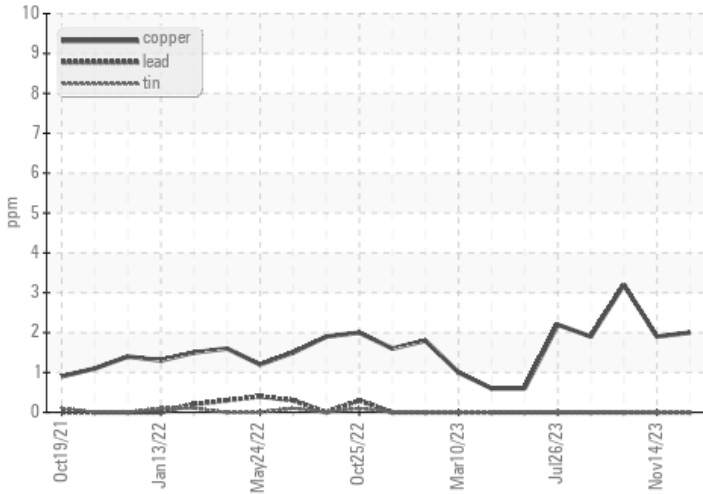


GRAPHS

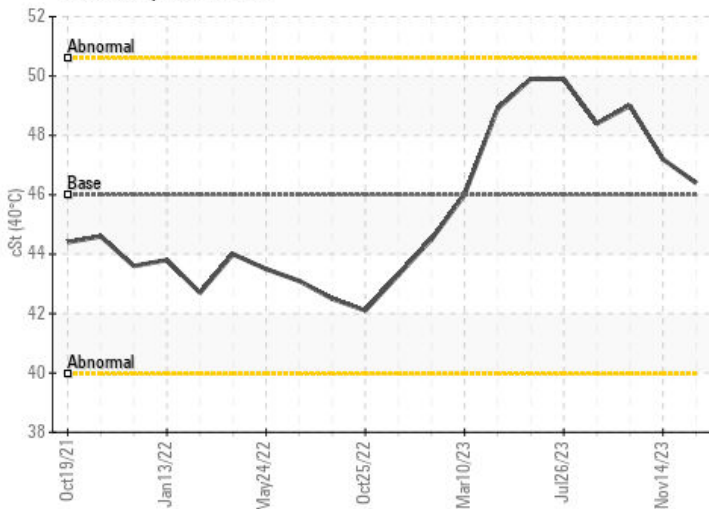
Ferrous Alloys



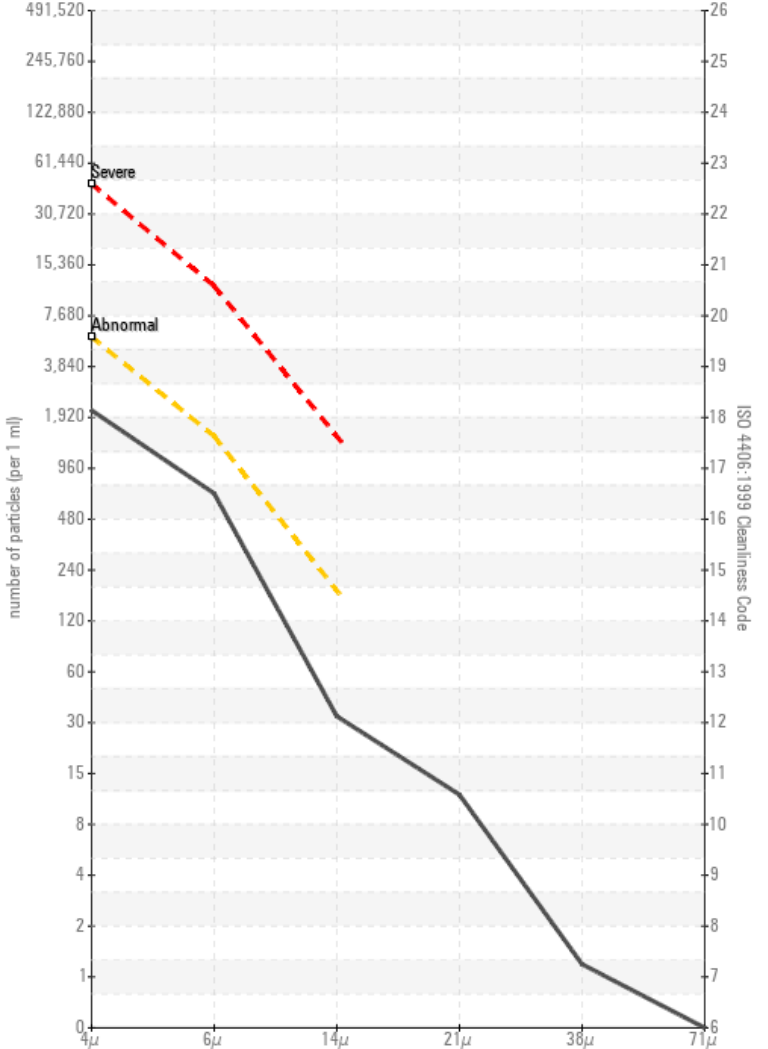
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

