



CONSTRUCTION EQUIPMENT

SWO-065585 EPIROC TMG21 SEDO346 - HYDRAULIC SYSTEM



Sample No: VCP433250
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-065585



SAMPLE INFORMATION

Sample Number	VCP433250	VCP369321	VCP407512	VCP402813
Sample Date	05 Sep 2023	26 Jul 2023	24 May 2023	25 Apr 2023
Machine Hours	4067	3837	3531	3310
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	48.4	49.9	49.9	48.9
Acid Number (AN)	mg KOH/g	0.56	0.57	0.49	0.50

CONTAMINATION

Particles >4µm		2230	22639	34258	408
Particles >6µm		585	7197	11943	100
Particles >14µm		43	299	523	6
ISO 4406:1999 (c)		18/16/13	22/20/15	22/21/16	16/14/10
Silicon	ppm	4	4	4	5
Sodium	ppm	<1	2	<1	0
Potassium	ppm	0	<1	<1	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	5	5	4	2
Copper	ppm	2	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<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	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	110	94	100	105
Magnesium	ppm	50	11	10	10
Zinc	ppm	616	541	564	570
Phosphorus	ppm	467	368	390	400
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10647276
Signed: Don Baldrige
Report Date: 19 Sep 2023

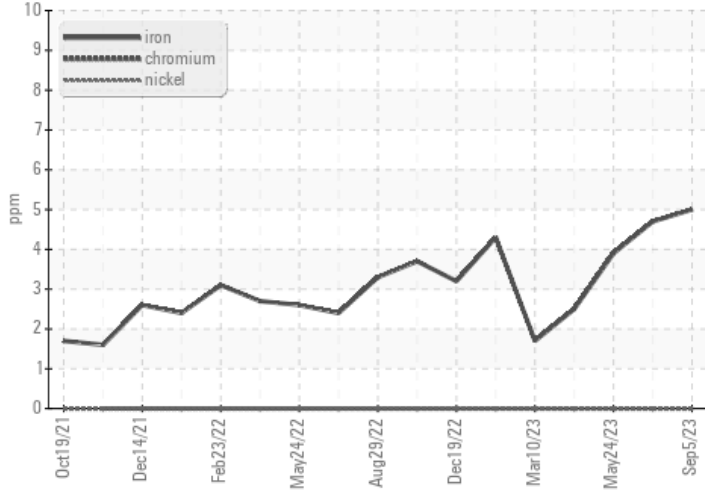


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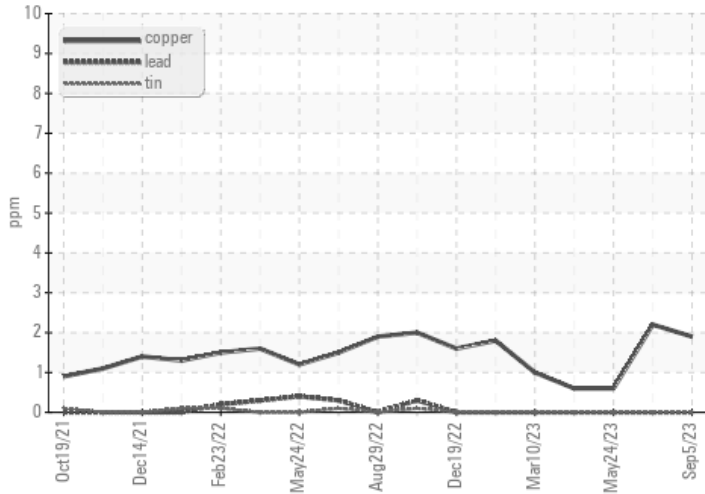


GRAPHS

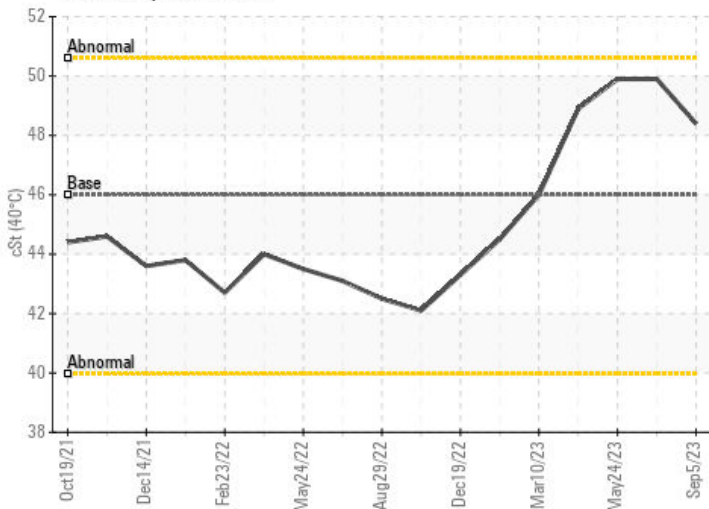
Ferrous Alloys



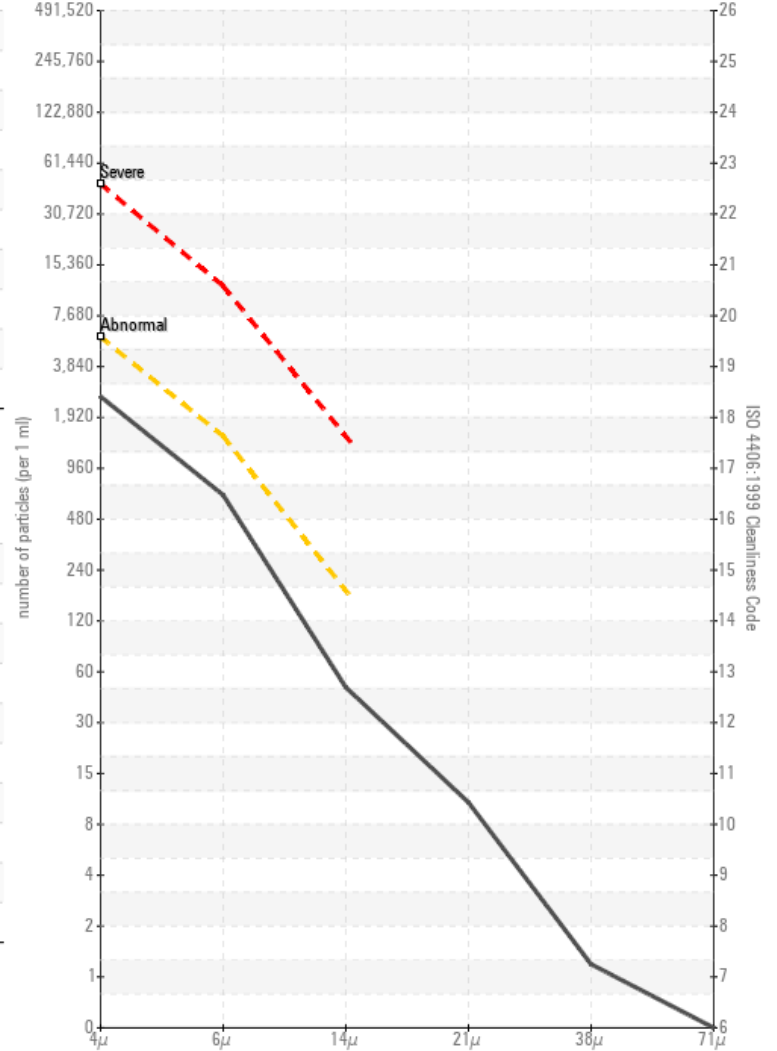
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

