



CONSTRUCTION EQUIPMENT

SWO-063552 EPIROC TMG21 SED0492 - HYDRAULIC SYSTEM



Sample No: VCP424280
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-063552



SAMPLE INFORMATION

Sample Number	VCP424280	VCP414244	VCP402785	VCP354536
Sample Date	03 Jul 2023	25 May 2023	16 Apr 2023	10 Mar 2023
Machine Hours	3460	3205	2907	2693
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.5	45.1	45.2	45.3
Acid Number (AN)	mg KOH/g	0.42	0.47	0.47	0.45

CONTAMINATION

Particles >4µm		17058	1037	661	1809
Particles >6µm		3805	313	210	608
Particles >14µm		206	27	36	55
ISO 4406:1999 (c)		21/19/15	17/15/12	17/15/12	18/16/13
Silicon	ppm	7	7	4	4
Sodium	ppm	0	1	<1	<1
Potassium	ppm	<1	<1	0	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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	8	13	8	5
Copper	ppm	3	4	3	3
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	60	80	58	57
Magnesium	ppm	12	22	17	15
Zinc	ppm	478	631	460	419
Phosphorus	ppm	336	436	334	321
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10547938
Signed: Don Baldrige
Report Date: 10 Jul 2023

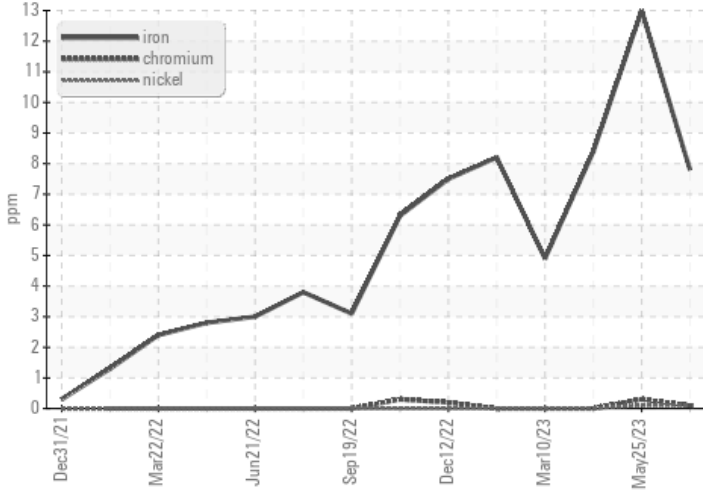


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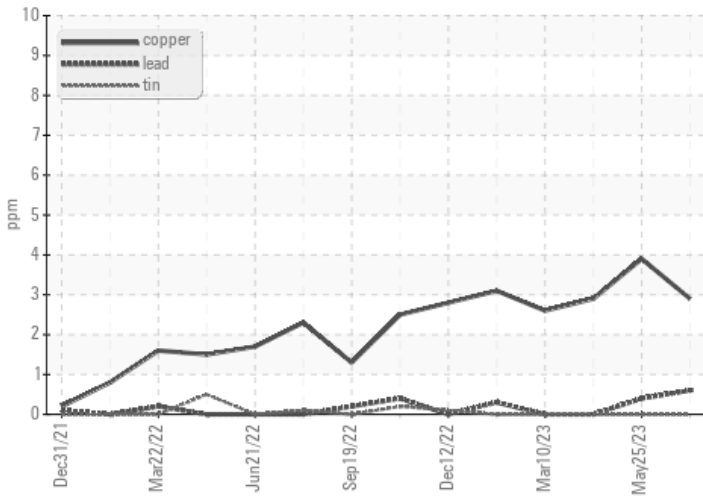


GRAPHS

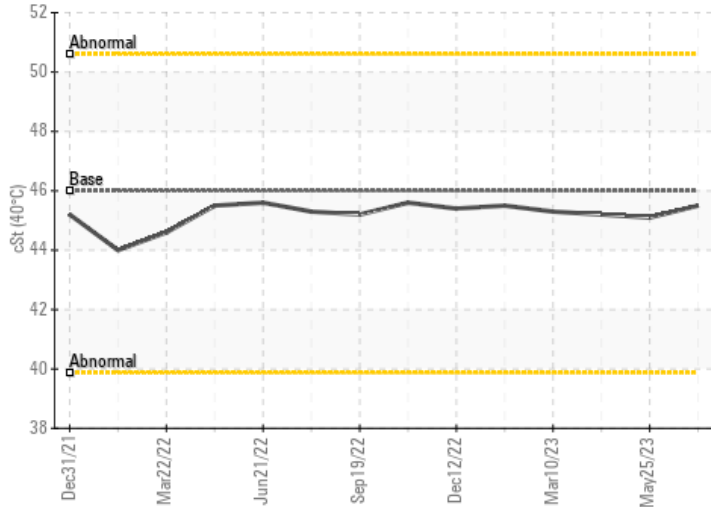
Ferrous Alloys



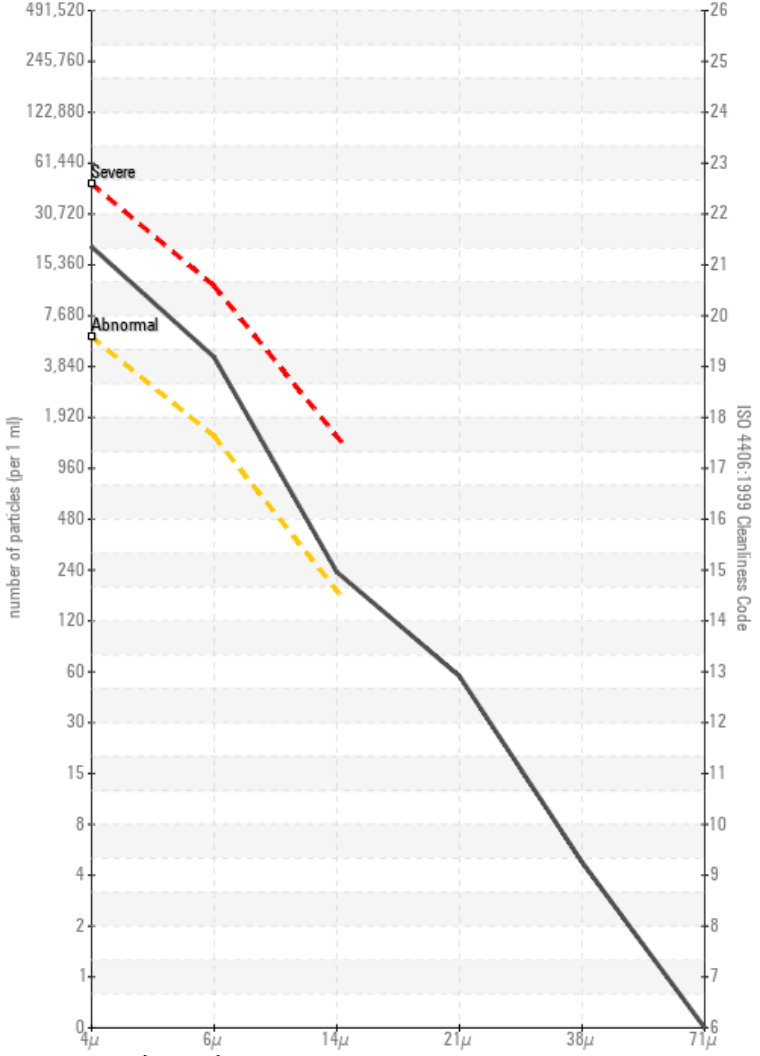
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

