



CONSTRUCTION EQUIPMENT

SWO-064931 EPIROC TMG21 SED0492 - HYDRAULIC SYSTEM



Sample No: VCP426220
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064931



SAMPLE INFORMATION

Sample Number	VCP426220	VCP424280	VCP414244	VCP402785
Sample Date	23 Aug 2023	03 Jul 2023	25 May 2023	16 Apr 2023
Machine Hours	3744	3460	3205	2907
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.5	45.5	45.1	45.2
Acid Number (AN)	mg KOH/g	0.51	0.42	0.47	0.47

CONTAMINATION

Particles >4µm	5644	17058	1037	661	
Particles >6µm	1736	3805	313	210	
Particles >14µm	73	206	27	36	
ISO 4406:1999 (c)	20/18/13	21/19/15	17/15/12	17/15/12	
Silicon	ppm	5	7	7	4
Sodium	ppm	2	0	1	<1
Potassium	ppm	2	<1	<1	0

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	10	8	13	8
Copper	ppm	3	3	4	3
Lead	ppm	1	<1	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	60	60	80	58
Magnesium	ppm	22	12	22	17
Zinc	ppm	492	478	631	460
Phosphorus	ppm	359	336	436	334
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10622453
Signed: Don Baldrige
Report Date: 30 Aug 2023

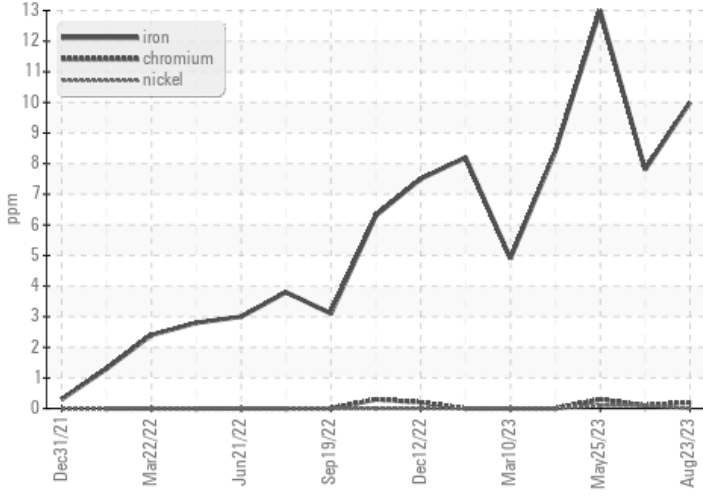


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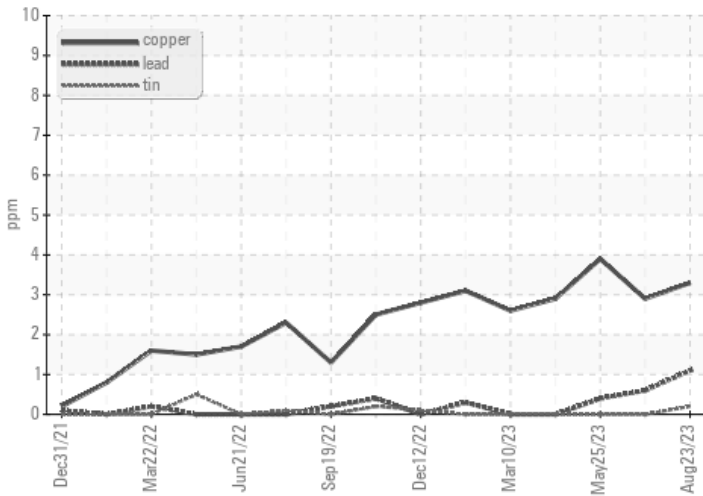


GRAPHS

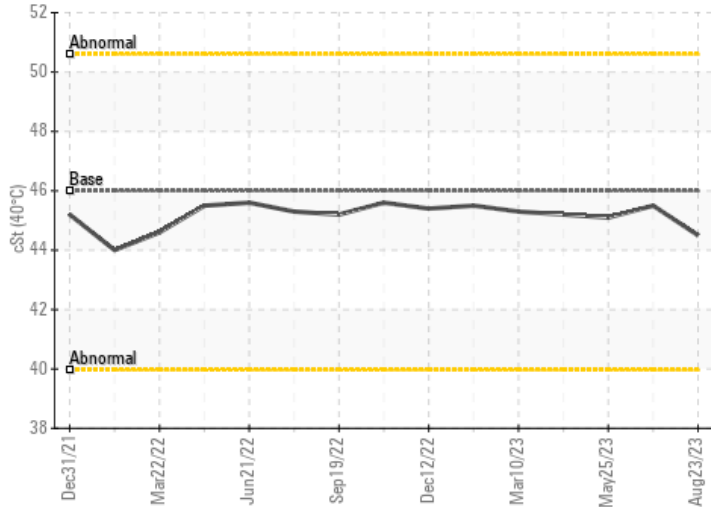
Ferrous Alloys



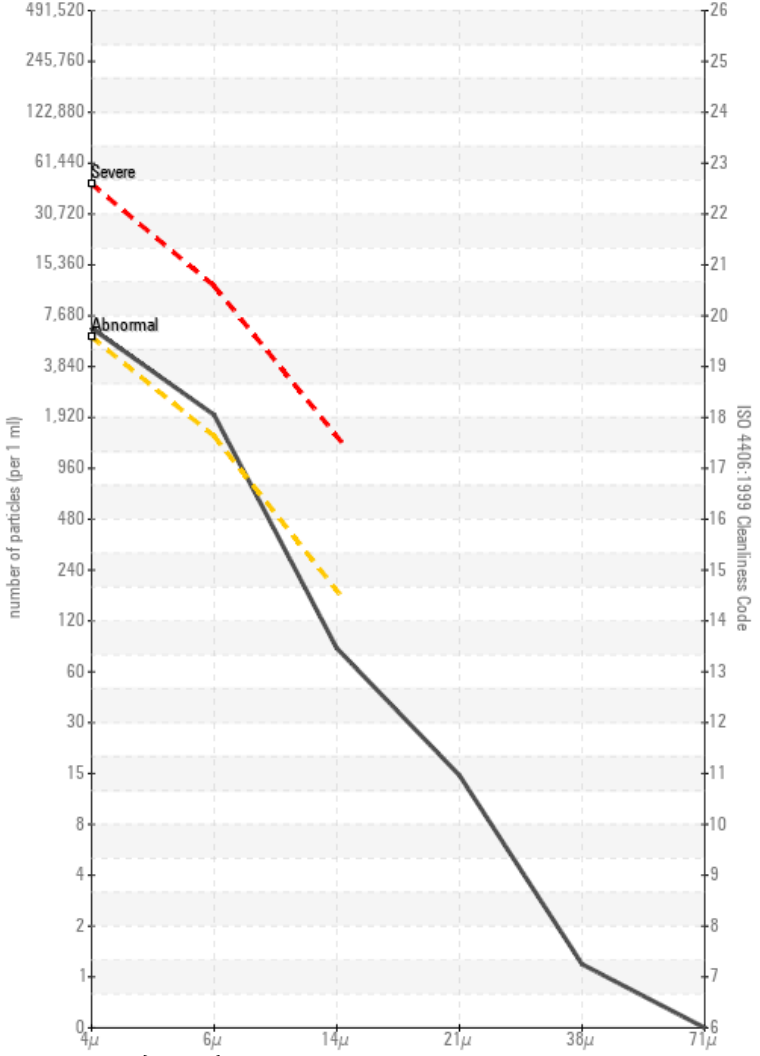
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

