

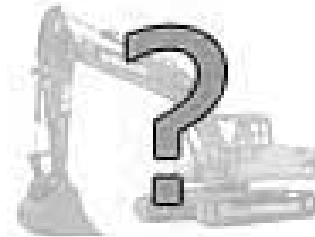


CONSTRUCTION EQUIPMENT

SWO-067138 EPIROC TMG21 SED0492 - HYDRAULIC SYSTEM



Sample No: VCP428906
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-067138



SAMPLE INFORMATION

Sample Number	VCP428906	VCP429386	VCP426220	VCP424280
Sample Date	31 Oct 2023	08 Oct 2023	23 Aug 2023	03 Jul 2023
Machine Hours	4296	4048	3744	3460
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ATTENTION	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.6	45.6	44.5	45.5
Acid Number (AN)	mg KOH/g	0.62	0.40	0.51	0.42

CONTAMINATION

Particles >4µm	4612	5256	5644	17058	
Particles >6µm	766	649	1736	3805	
Particles >14µm	38	41	73	206	
ISO 4406:1999 (c)	19/17/12	20/17/13	20/18/13	21/19/15	
Silicon	ppm	4	5	5	7
Sodium	ppm	0	1	2	0
Potassium	ppm	1	0	2	<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	9	8	10	8
Copper	ppm	4	4	3	3
Lead	ppm	<1	0	1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	2	2	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	149	159	60	60
Magnesium	ppm	117	16	22	12
Zinc	ppm	639	540	492	478
Phosphorus	ppm	466	388	359	336
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10724988
Signed: Don Baldrige
Report Date: 04 Nov 2023

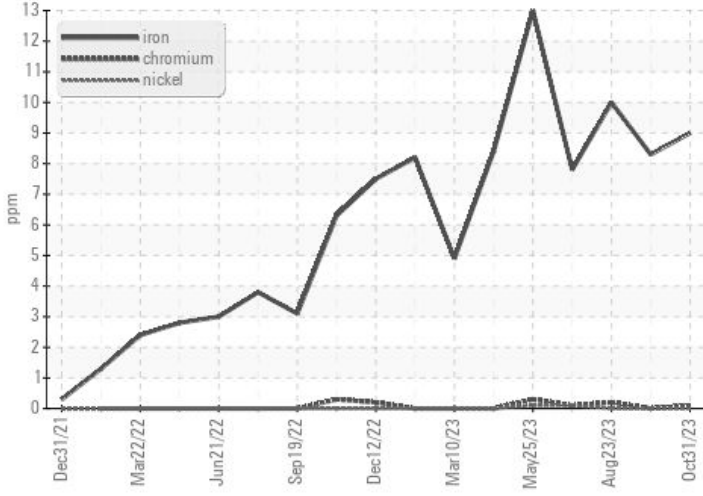


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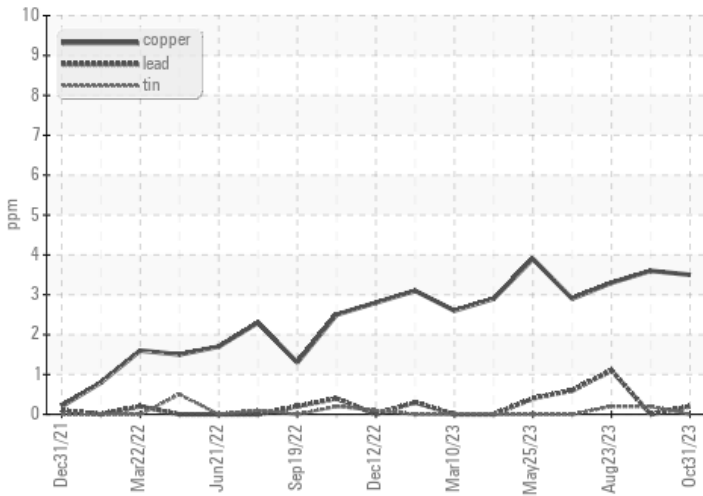


GRAPHS

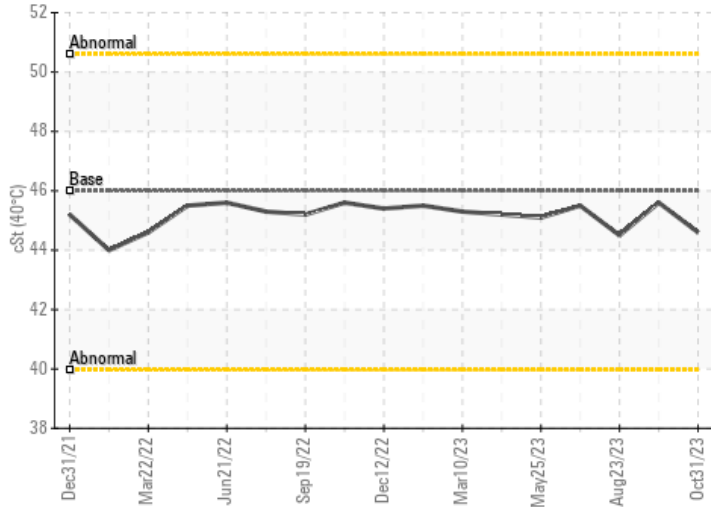
Ferrous Alloys



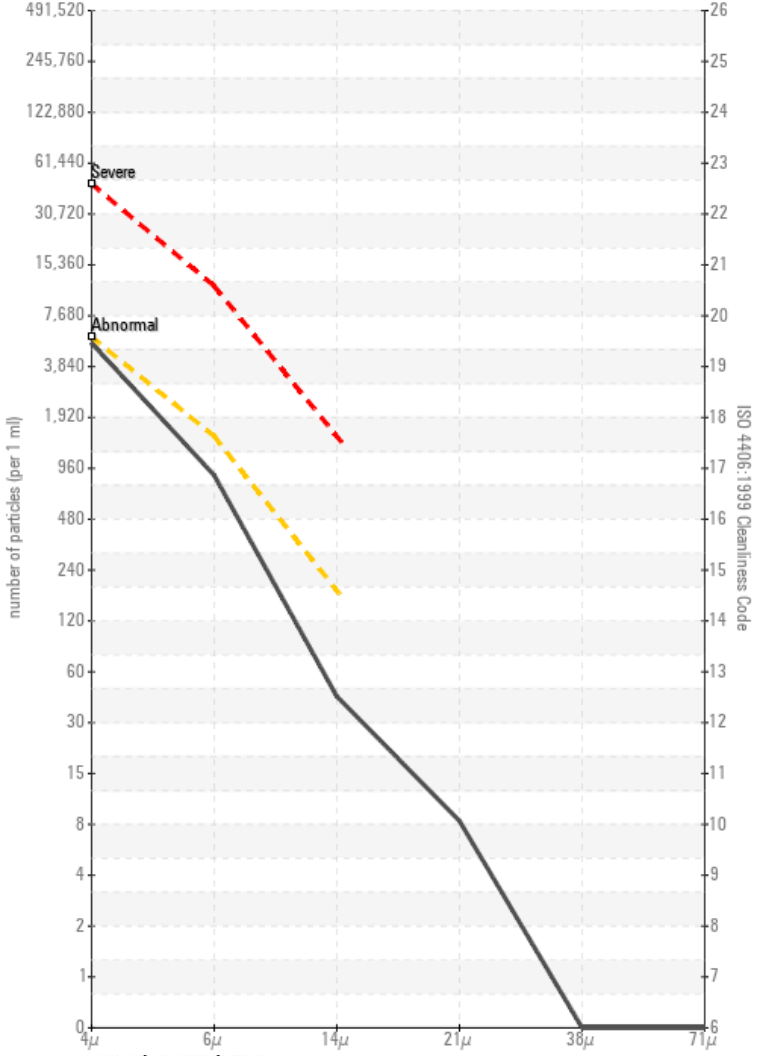
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

