



CONSTRUCTION EQUIPMENT

SWO-064723 EPIROC TMG21 SEDO165 - HYDRAULIC SYSTEM



Sample No: VCP414175
Oil Type: SHELL TELLUS S2 VX 46
Job No: SWO-064723



SAMPLE INFORMATION

Sample Number	VCP414175	VCP407797	VCP410313	VCP402469
Sample Date	09 Aug 2023	13 Jun 2023	30 Mar 2023	01 Mar 2023
Machine Hours	3817	3489	3217	3059
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	48.0	47.0	47.6	46.3
Acid Number (AN)	mg KOH/g	0.52	0.53	0.49	0.56

CONTAMINATION

Particles >4µm	2588	9905	2181	433	
Particles >6µm	786	3176	661	112	
Particles >14µm	31	134	28	6	
ISO 4406:1999 (c)	19/17/12	20/19/14	18/17/12	16/14/10	
Silicon	ppm	4	5	5	4
Sodium	ppm	1	<1	0	0
Potassium	ppm	2	<1	<1	<1

Diagnosis
 Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	6	4	4	1
Copper	ppm	3	3	3	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	98	98	102	103
Magnesium	ppm	6	4	3	6
Zinc	ppm	549	555	575	580
Phosphorus	ppm	417	421	419	409
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10607139
Signed: Jonathan Hester
Report Date: 21 Aug 2023

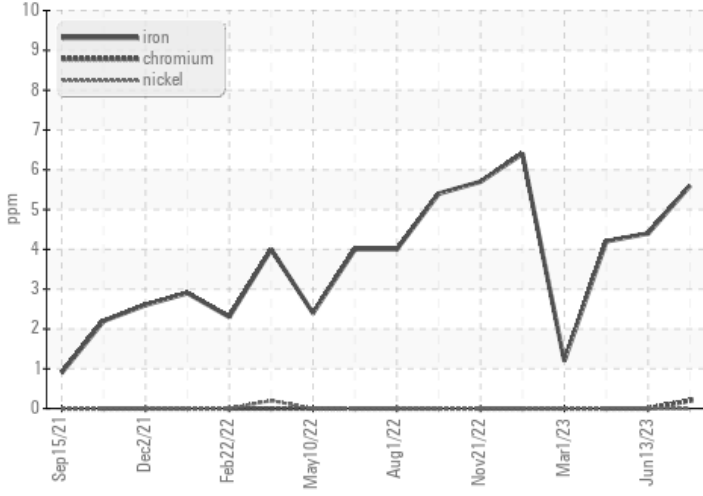


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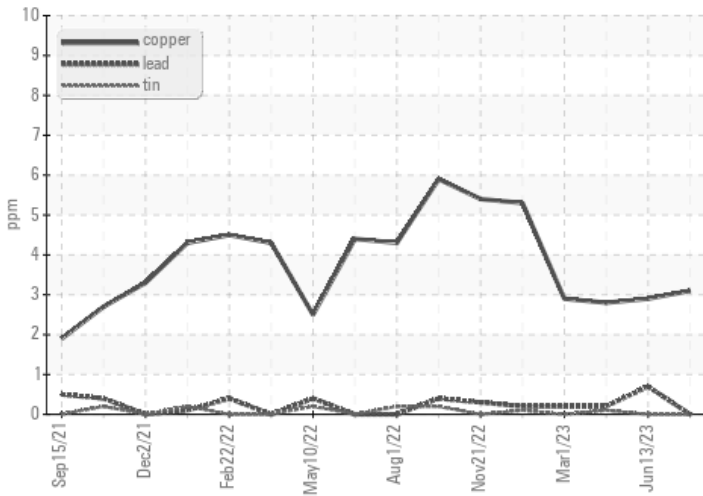


GRAPHS

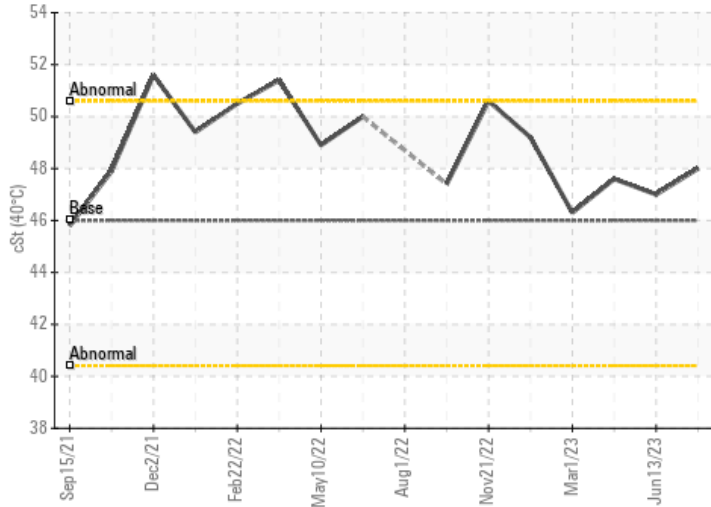
Ferrous Alloys



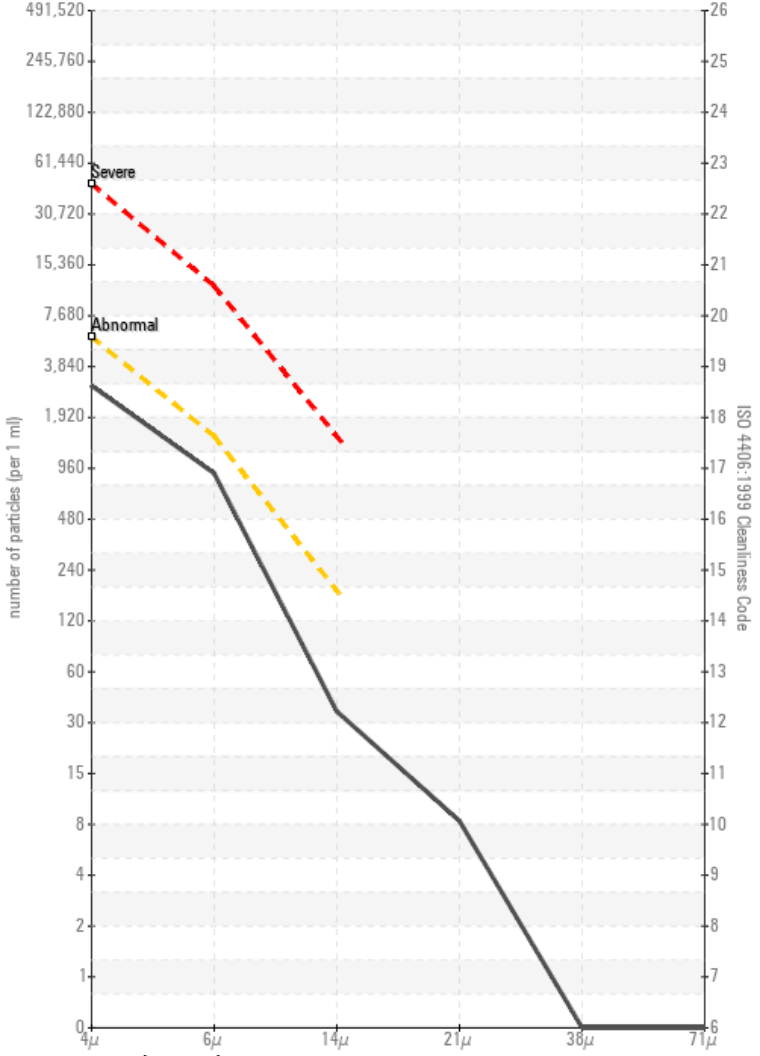
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

