



CONSTRUCTION EQUIPMENT

SWO-067518 EPIROC TMG21 SEDO165 - HYDRAULIC SYSTEM



Sample No: VCP445717
Oil Type: SHELL TELLUS S2 VX 46
Job No: SWO-067518



SAMPLE INFORMATION

Sample Number	VCP445717	VCP431670	VCP414175	VCP407797
Sample Date	14 Nov 2023	04 Oct 2023	09 Aug 2023	13 Jun 2023
Machine Hours	4407	4102	3817	3489
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	51.2	50.3	48.0	47.0
Acid Number (AN)	mg KOH/g	0.44	0.56	0.52	0.53

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1636	4308	2588	9905
Particles >6µm		279	1259	786	3176
Particles >14µm		12	55	31	134
ISO 4406:1999 (c)		18/15/11	19/17/13	19/17/12	20/19/14
Silicon	ppm	4	4	4	5
Sodium	ppm	0	<1	1	<1
Potassium	ppm	0	0	2	<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	6	4
Copper	ppm	3	3	3	3
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	73	85	98	98
Magnesium	ppm	0	5	6	4
Zinc	ppm	540	525	549	555
Phosphorus	ppm	369	371	417	421
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10750591
Signed: Don Baldrige
Report Date: 21 Nov 2023

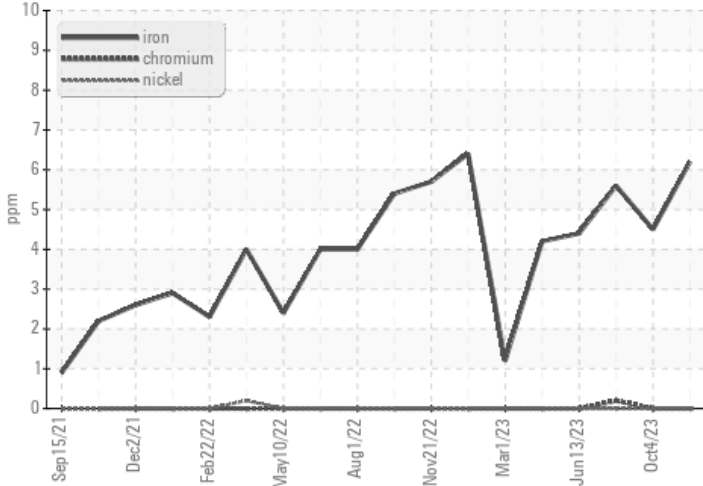


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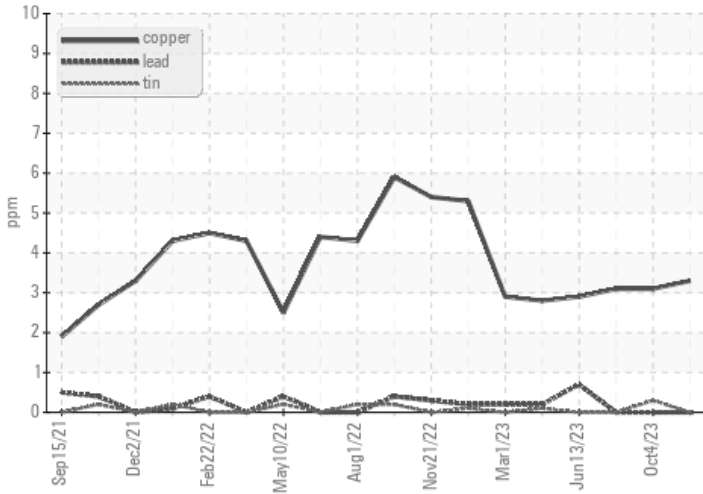


VOLVO GRAPHS

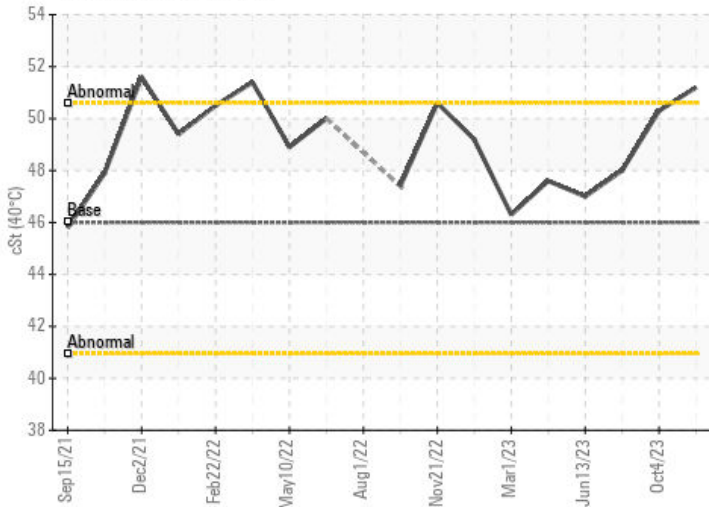
Ferrous Alloys



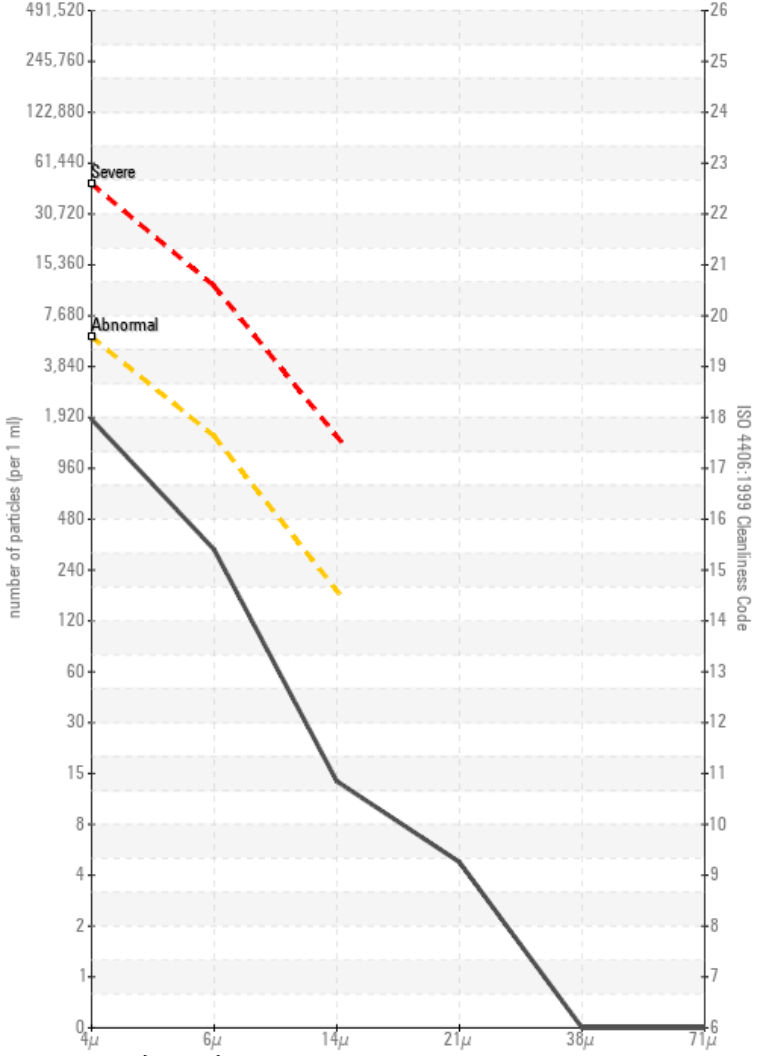
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

