



# CONSTRUCTION EQUIPMENT

## SWO-068838 EPIROC TMG21 SED0223 - HYDRAULIC SYSTEM



**Sample No:** VCP441323  
**Oil Type:** SHELL TELLUS S2 VX 46  
**Job No:** SWO-068838



### SAMPLE INFORMATION

Sample Number	<b>VCP441323</b>	VCP445715	VCP433638	VCP425886
Sample Date	<b>30 Jan 2024</b>	27 Nov 2023	29 Aug 2023	05 Jul 2023
Machine Hours	<b>4133</b>	3804	3384	3133
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.3</b>	44.3	44.7	45.2
Acid Number (AN)	mg KOH/g	<b>0.46</b>	0.49	0.48	0.46



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>776</b>	8429	176	1905
Particles >6µm		<b>66</b>	1136	39	547
Particles >14µm		<b>5</b>	38	7	40
ISO 4406:1999 (c)		<b>17/13/10</b>	20/17/12	15/12/10	18/16/12
Silicon	ppm	<b>3</b>	4	3	3
Sodium	ppm	<b>0</b>	0	0	0
Potassium	ppm	<b>1</b>	2	<1	<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	<b>4</b>	4	3	3
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	1	4	2
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>&lt;1</b>	<1	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>94</b>	102	100	97
Magnesium	ppm	<b>4</b>	9	6	4
Zinc	ppm	<b>502</b>	472	499	482
Phosphorus	ppm	<b>367</b>	342	367	342
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	0	0

**Depot:** SAIBIR  
**Unique No:** 10860318  
**Signed:** Don Baldrige  
**Report Date:** 05 Feb 2024

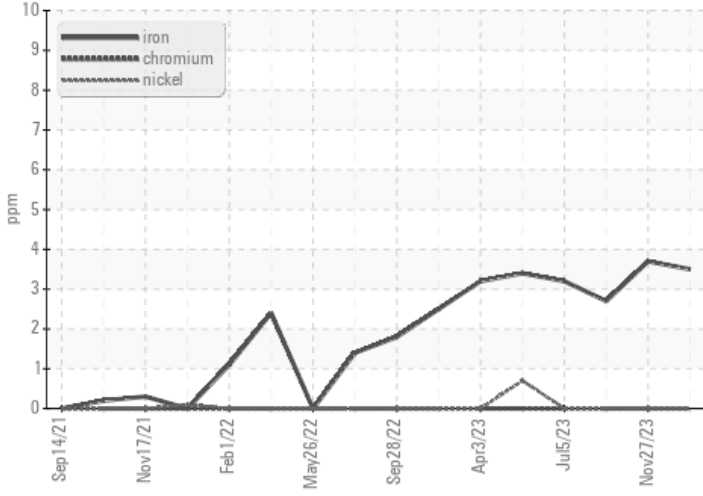


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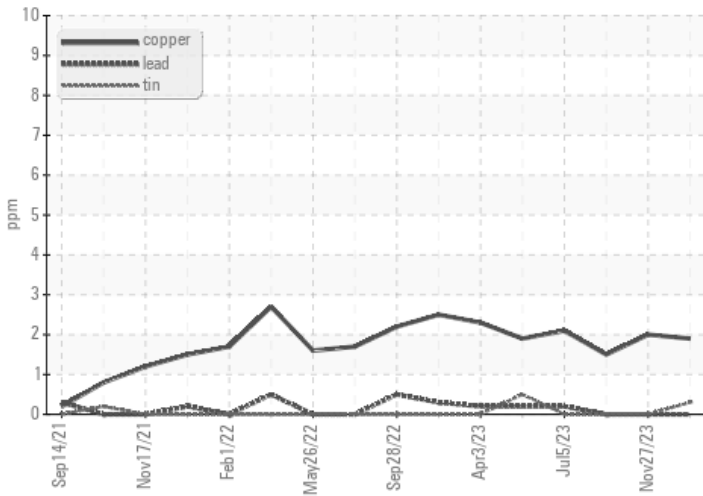


## GRAPHS

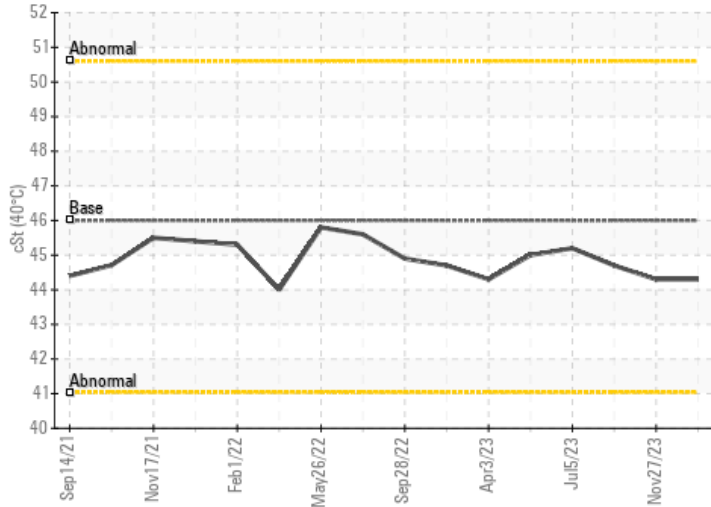
Ferrous Alloys



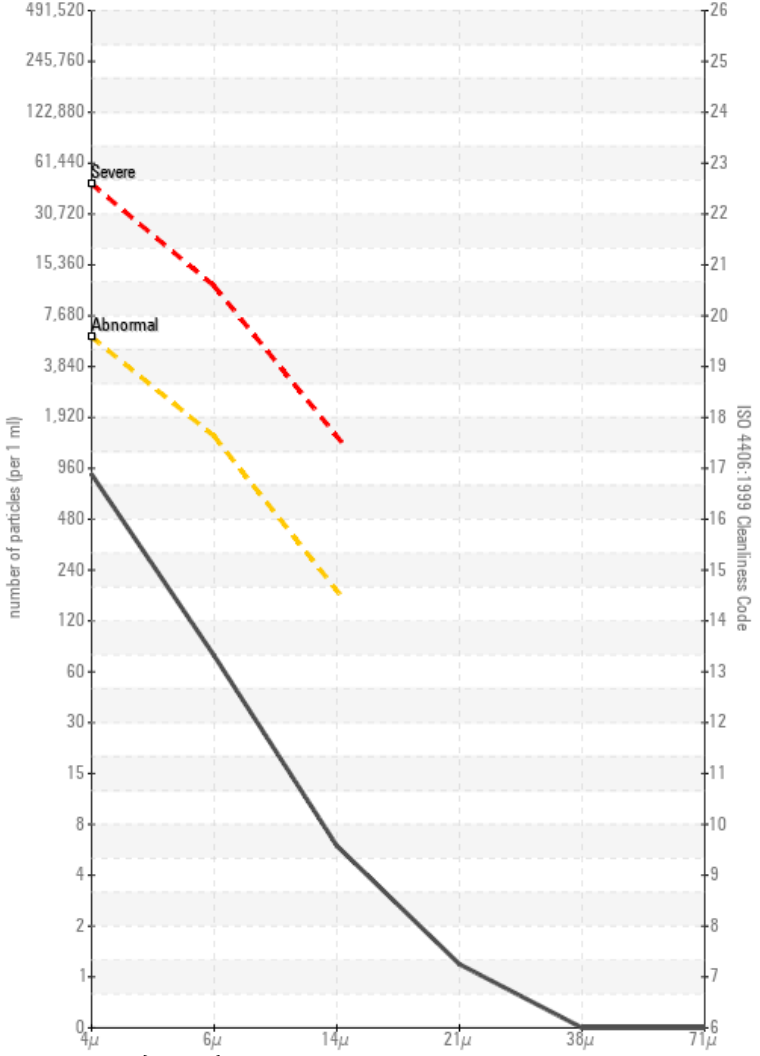
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

