



# CONSTRUCTION EQUIPMENT

## SWO-070487 EPIROC TMG21 SED0492 - HYDRAULIC SYSTEM



**Sample No:** VCP455404  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-070487



### SAMPLE INFORMATION

Sample Number	<b>VCP455404</b>	VCP444432	VCP435593	VCP428773
Sample Date	<b>17 Mar 2024</b>	13 Feb 2024	03 Jan 2024	27 Nov 2023
Machine Hours	<b>5262</b>	5028	4772	4529
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.9</b>	44.3	44.7	44.3
Acid Number (AN)	mg KOH/g	<b>0.70</b>	0.79	0.62	0.89



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>1149</b>	1507	1882	5389
Particles >6µm		<b>443</b>	470	512	907
Particles >14µm		<b>38</b>	39	14	35
ISO 4406:1999 (c)		<b>17/16/12</b>	18/16/12	18/16/11	20/17/12
Silicon	ppm	<b>4</b>	5	5	4
Sodium	ppm	<b>1</b>	2	0	0
Potassium	ppm	<b>0</b>	<1	2	2

### 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	<b>4</b>	5	8	8
Copper	ppm	<b>2</b>	3	3	3
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	2	2	1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>3</b>	2	2	<1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>142</b>	137	159	137
Magnesium	ppm	<b>75</b>	106	128	136
Zinc	ppm	<b>724</b>	599	674	639
Phosphorus	ppm	<b>556</b>	451	513	491
Barium	ppm	<b>0</b>	0	7	0
Boron	ppm	<b>0</b>	1	<1	0

**Depot:** SAIBIR  
**Unique No:** 10938977  
**Signed:** Don Baldrige  
**Report Date:** 24 Mar 2024

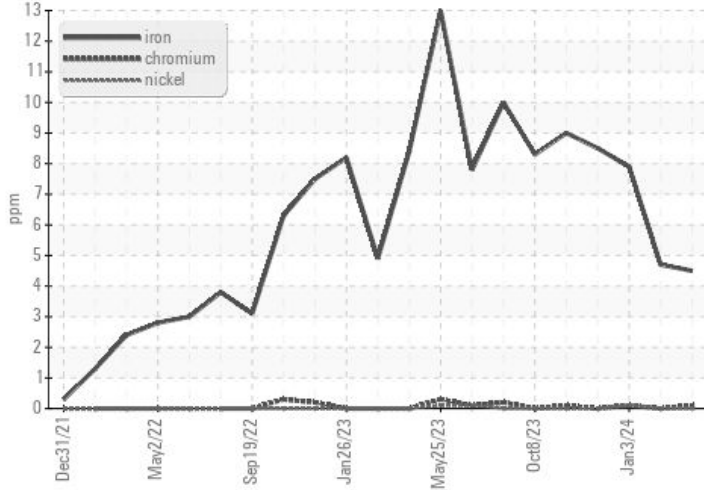


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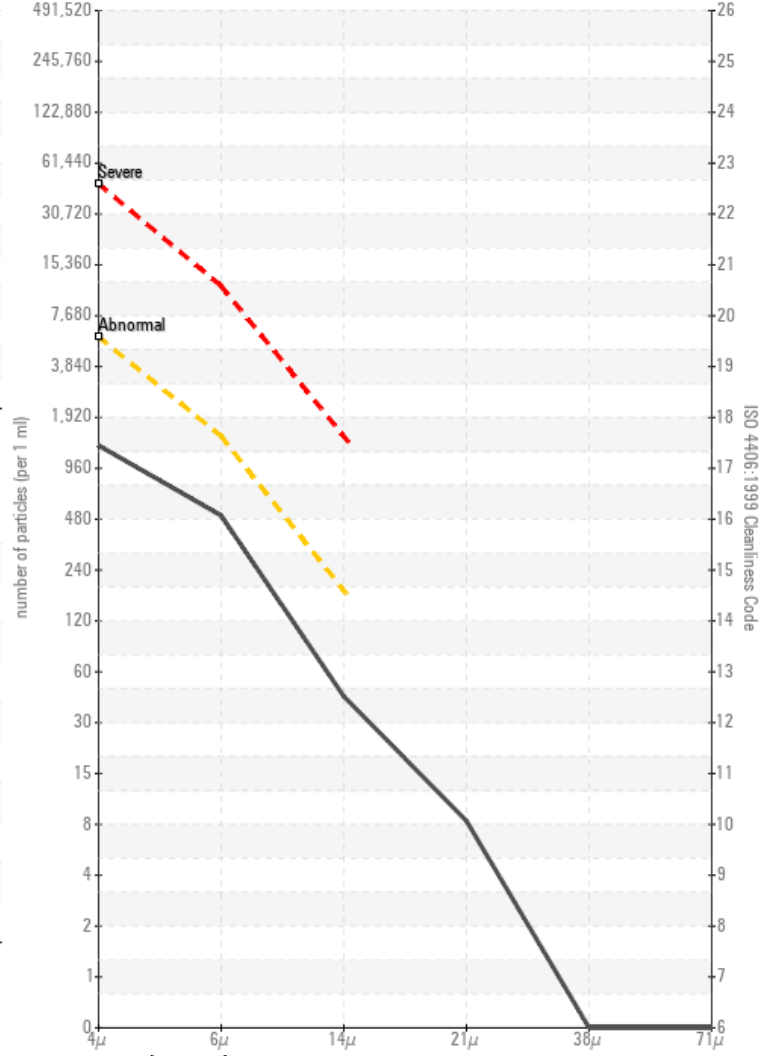


## VOLVO GRAPHS

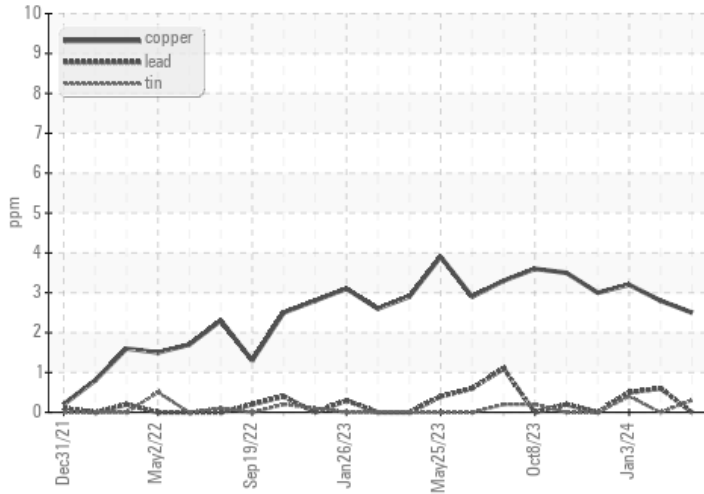
### Ferrous Alloys



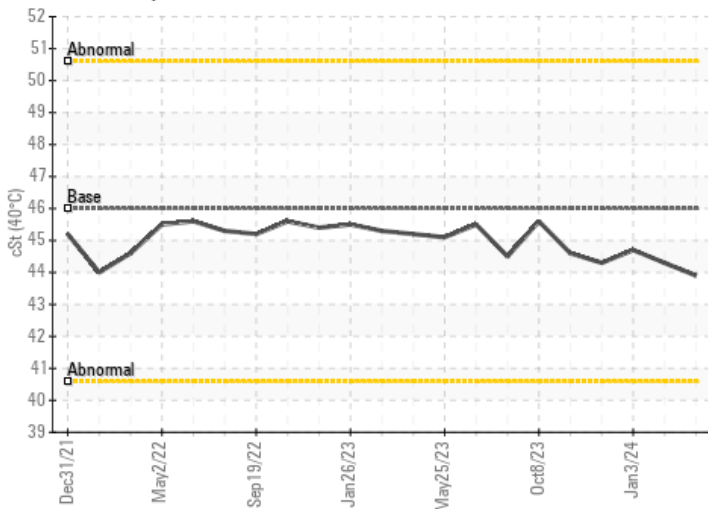
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

