



# CONSTRUCTION EQUIPMENT

## SWO-067730 EPIROC TMG21 SED0492 - HYDRAULIC SYSTEM



**Sample No:** VCP428773  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-067730



### SAMPLE INFORMATION

Sample Number	<b>VCP428773</b>	VCP428906	VCP429386	VCP426220
Sample Date	<b>27 Nov 2023</b>	31 Oct 2023	08 Oct 2023	23 Aug 2023
Machine Hours	<b>4529</b>	4296	4048	3744
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	ATTENTION

**SAIIA CONSTRUCTION LLC**  
 4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207  
 Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269

### OIL CONDITION

Visc @ 40°C	cSt	<b>44.3</b>	44.6	45.6	44.5
Acid Number (AN)	mg KOH/g	<b>0.89</b>	0.62	0.40	0.51

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 5389</b>	4612	▲ 5256	▲ 5644
Particles >6µm		<b>907</b>	766	649	▲ 1736
Particles >14µm		<b>35</b>	38	41	73
ISO 4406:1999 (c)		<b>20/17/12</b>	19/17/12	20/17/13	20/18/13
Silicon	ppm	<b>4</b>	4	5	5
Sodium	ppm	<b>0</b>	0	1	2
Potassium	ppm	<b>2</b>	1	0	2

**Diagnosis**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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>8</b>	9	8	10
Copper	ppm	<b>3</b>	4	4	3
Lead	ppm	<b>0</b>	<1	0	1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	2	2
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>137</b>	149	159	60
Magnesium	ppm	<b>136</b>	117	16	22
Zinc	ppm	<b>639</b>	639	540	492
Phosphorus	ppm	<b>491</b>	466	388	359
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10766017  
**Signed:** Don Baldrige  
**Report Date:** 04 Dec 2023

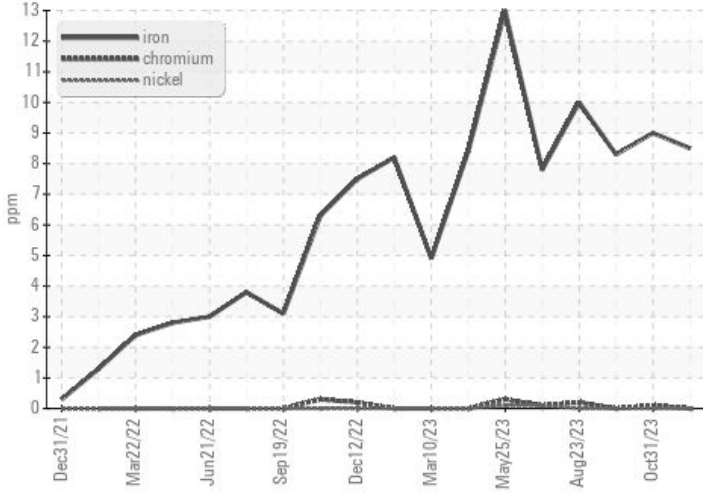


# CONSTRUCTION EQUIPMENT

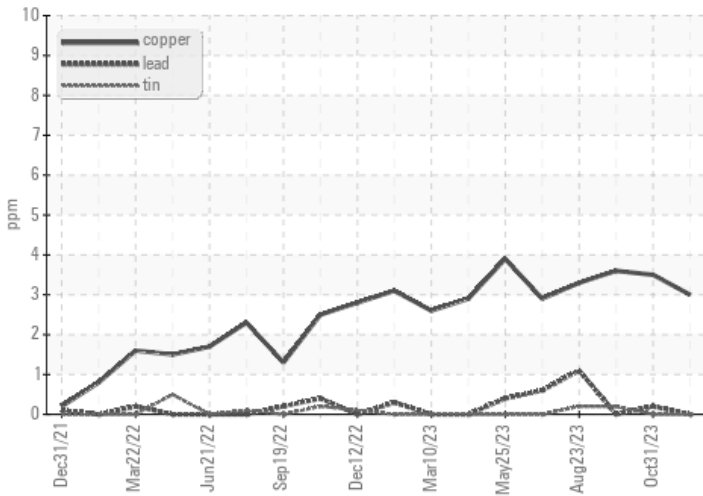


## GRAPHS

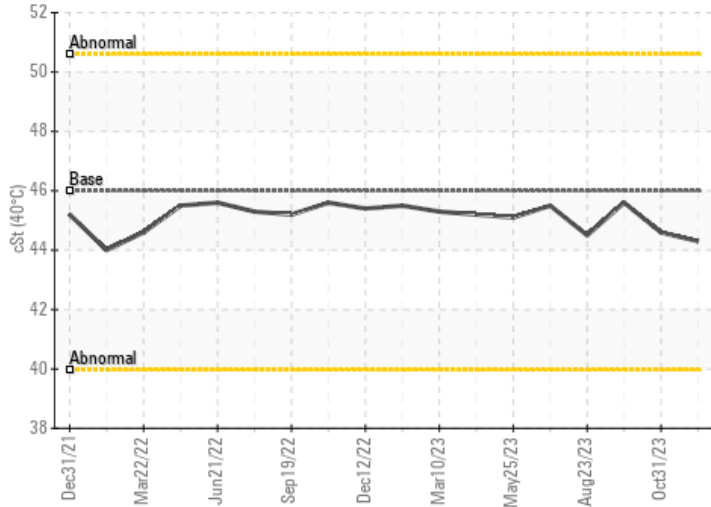
Ferrous Alloys



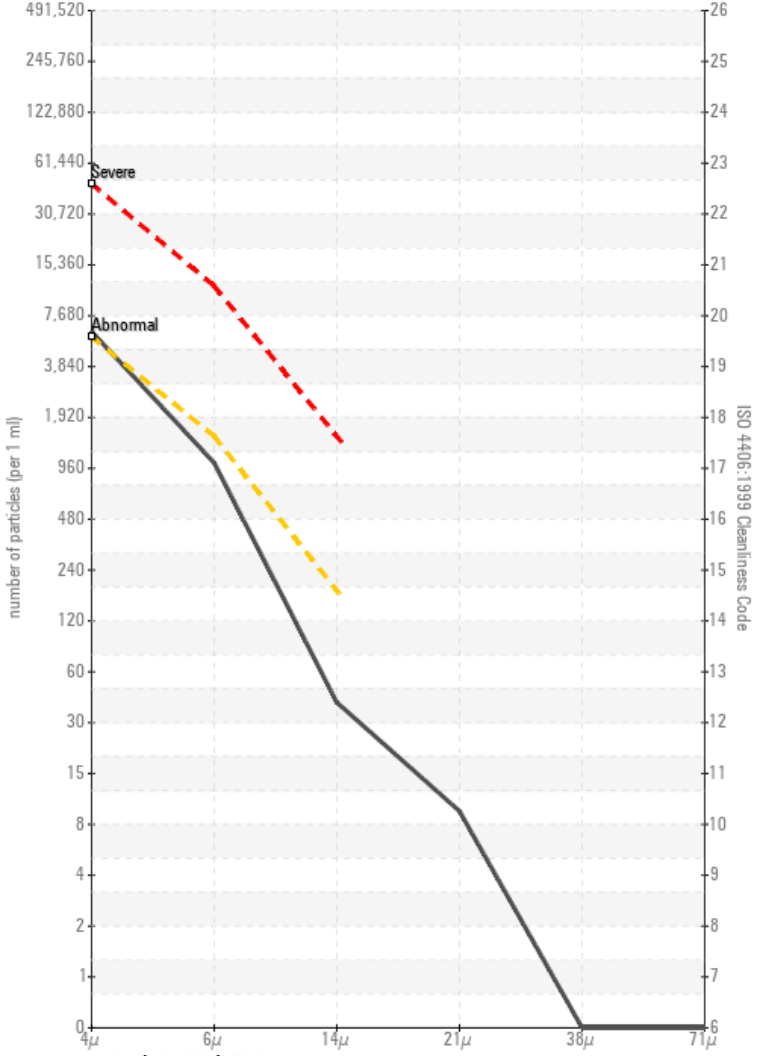
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

