



# CONSTRUCTION EQUIPMENT

## SPM621075 SENNEBOGEN 830E 2885 - HYDRAULIC SYSTEM



**Sample No:** VCP405003  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM621075



### SAMPLE INFORMATION

Sample Number	<b>VCP405003</b>	VCP367783	VCP312803	---
Sample Date	<b>24 Oct 2023</b>	10 Nov 2022	14 Dec 2021	---
Machine Hours	<b>4786</b>	3874	2495	---
Oil Hours	<b>0</b>	35	2495	---
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

### FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE  
 DETROIT, MI  
 US 48207  
 Contact: KEITH HALL  
 keith.hall@fpt1.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>45.0</b>	43.0	42.7	---
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.49	0.467	---



### CONTAMINATION

Particles >4µm	---	▲ 18749	▲ 106705	---	
Particles >6µm	---	▲ 4446	▲ 16810	---	
Particles >14µm	---	▲ 299	▲ 301	---	
ISO 4406:1999 (c)	---	21/19/15	24/21/15	---	
Silicon	ppm	<b>0</b>	<1	<1	---
Sodium	ppm	<b>&lt;1</b>	0	1	---
Potassium	ppm	<b>0</b>	1	0	---

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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>0</b>	6	4	---
Copper	ppm	<b>&lt;1</b>	3	3	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>0</b>	1	<1	---
Chromium	ppm	<b>0</b>	2	<1	---
Molybdenum	ppm	<b>0</b>	0	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	2	0	---
Manganese	ppm	<b>0</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

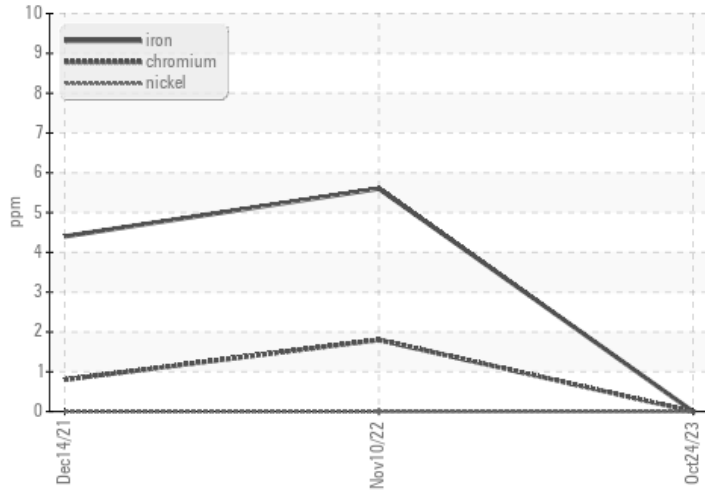
Calcium	ppm	<b>20</b>	126	164	---
Magnesium	ppm	<b>&lt;1</b>	1	<1	---
Zinc	ppm	<b>345</b>	390	364	---
Phosphorus	ppm	<b>277</b>	297	276	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	<1	2	---

**Depot:** FERDET  
**Unique No:** 10727345  
**Signed:** Don Baldrige  
**Report Date:** 07 Nov 2023

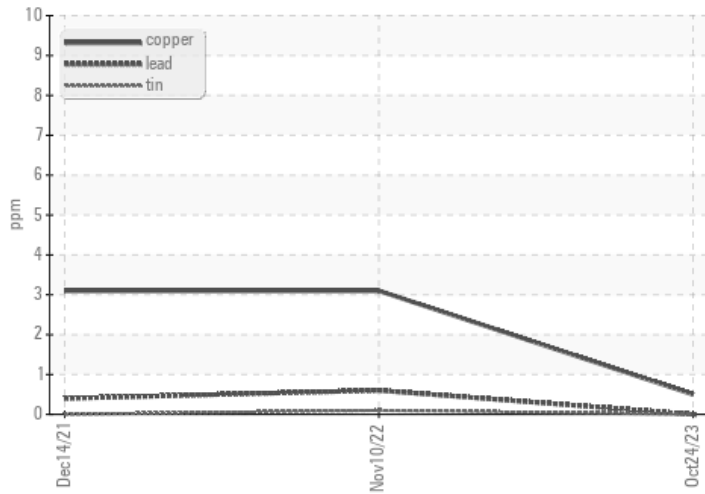


## GRAPHS

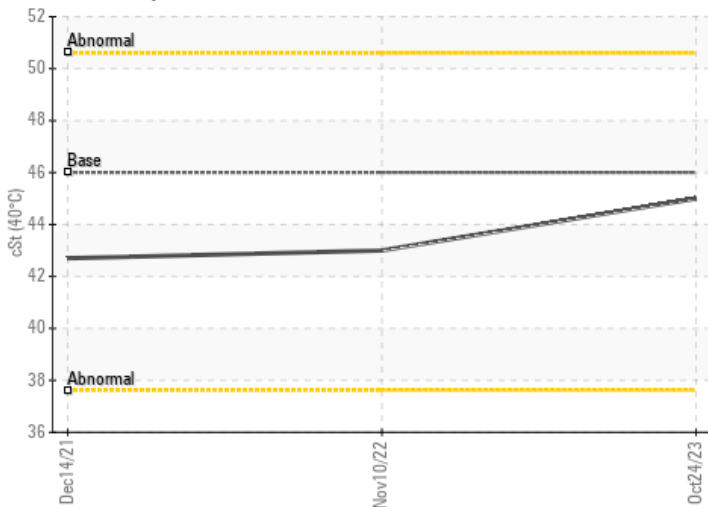
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

