



# CONSTRUCTION EQUIPMENT

595067 SENNEBOGEN 840 840.0.2244 - HYDRAULIC SYSTEM



**Sample No:** VCP416932  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 595067



## SAMPLE INFORMATION

Sample Number	<b>VCP416932</b>	VCP392698	VCP338847	VCP303833
Sample Date	<b>01 Sep 2023</b>	13 Jan 2023	06 May 2022	20 May 2021
Machine Hours	<b>6206</b>	4555	2545	256
Oil Hours	<b>2206</b>	4555	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	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>39.3</b>	34.3	35.09	45.1
Acid Number (AN)	mg KOH/g	<b>0.69</b>	0.98	1.12	1.045

## CONTAMINATION

Particles >4µm		<b>15835</b>	11173	47514	15433
Particles >6µm		<b>4033</b>	2801	11563	3254
Particles >14µm		<b>230</b>	158	459	147
ISO 4406:1999 (c)		<b>21/19/15</b>	21/19/14	23/21/16	21/19/14
Silicon	ppm	<b>1</b>	2	2	<1
Sodium	ppm	<b>19</b>	45	46	18
Potassium	ppm	<b>1</b>	6	3	4

### 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. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## WEAR METALS

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

## ADDITIVES

Calcium	ppm	<b>359</b>	965	1030	1385
Magnesium	ppm	<b>&lt;1</b>	7	6	9
Zinc	ppm	<b>456</b>	631	637	631
Phosphorus	ppm	<b>390</b>	501	518	507
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	<1	3

**Depot:** FERDET  
**Unique No:** 10644925  
**Signed:** Don Baldrige  
**Report Date:** 14 Sep 2023

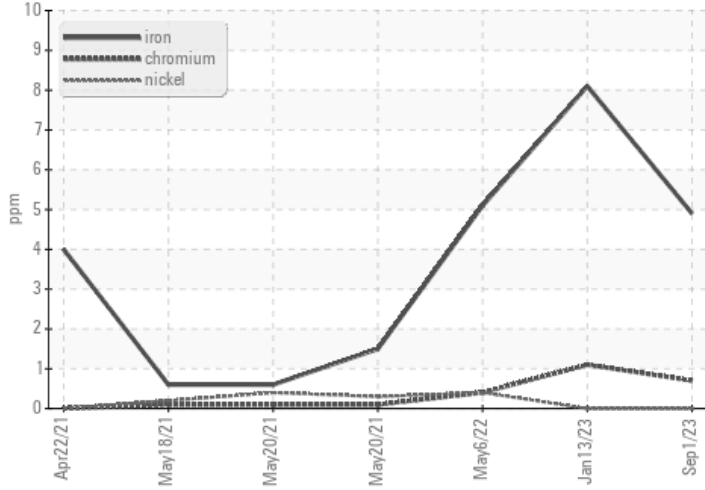


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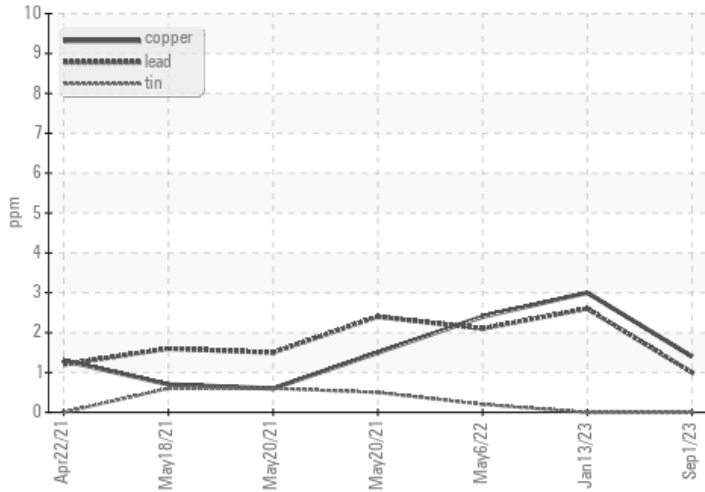


## GRAPHS

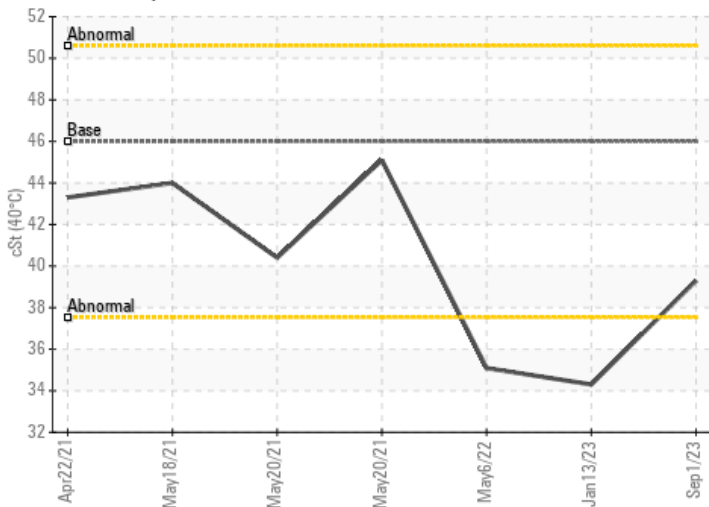
### Ferrous Alloys



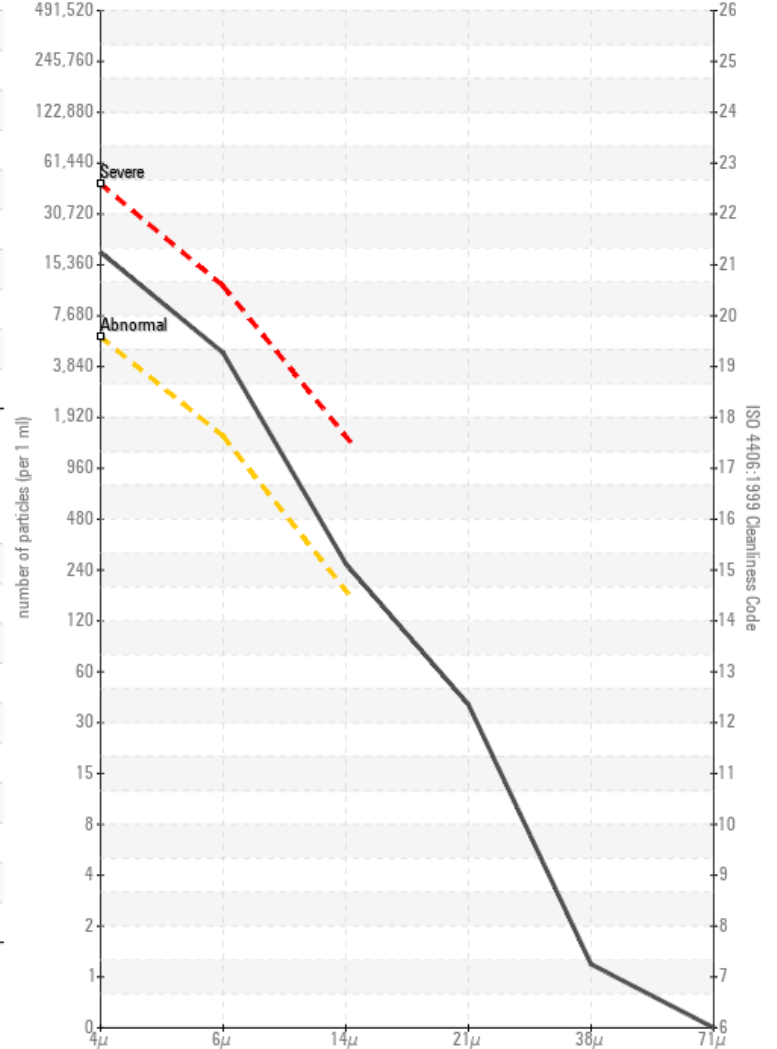
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

