



# CONSTRUCTION EQUIPMENT

RED PATH SUGAR 8-400217 SENNEBOGEN 880 8807123 (S/N 880 7.123) - HYDRAULIC SYSTEM



**Sample No:** VCP394611  
**Oil Type:** SHELL NATUREL HF-E 46  
**Job No:** 8-400217



## SAMPLE INFORMATION

Sample Number	<b>VCP394611</b>	VCP352269	VCP173263	VCE209033
Sample Date	<b>10 Apr 2024</b>	22 Sep 2022	10 May 2021	18 Apr 2017
Machine Hours	<b>16976</b>	14939	12471	7017
Oil Hours	<b>1643</b>	430	1200	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 40°C	cSt	<b>46.7</b>	46.0	43.2	42.7
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<b>3849</b>	2843	3323	3344
Particles >6µm		<b>1217</b>	921	693	783
Particles >14µm		<b>77</b>	74	57	44
ISO 4406:1999 (c)		<b>19/17/13</b>	19/17/13	19/17/13	19/17/13
Silicon	ppm	<b>0</b>	<1	<1	<1
Sodium	ppm	<b>3</b>	3	5	2
Potassium	ppm	<b>3</b>	<1	<1	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



## WEAR METALS

PQ		---	---	0	---
Iron	ppm	<b>8</b>	17	47	2
Copper	ppm	<b>1</b>	1	1	<1
Lead	ppm	<b>1</b>	2	<1	<1
Tin	ppm	<b>0</b>	<1	1	0
Aluminum	ppm	<b>1</b>	1	2	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>&lt;1</b>	5	2	<1
Magnesium	ppm	<b>&lt;1</b>	<1	<1	0
Zinc	ppm	<b>11</b>	15	38	20
Phosphorus	ppm	<b>198</b>	274	542	1138
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>1</b>	1	<1	<1

**Depot:** SHEMIS  
**Unique No:** 5762001  
**Signed:** Wes Davis  
**Report Date:** 16 Apr 2024

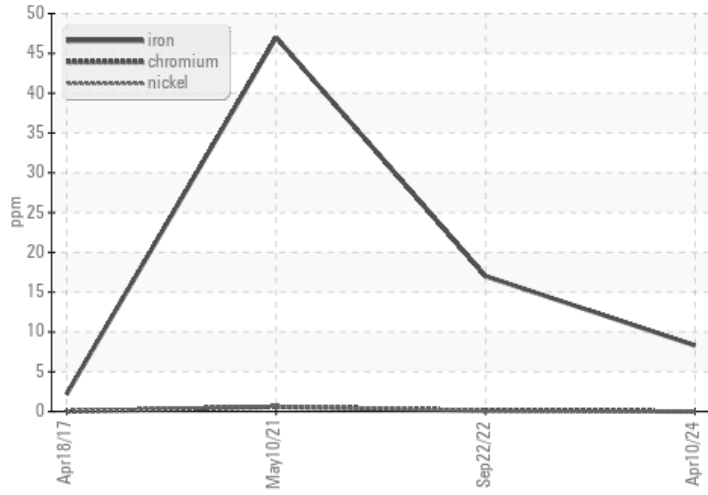


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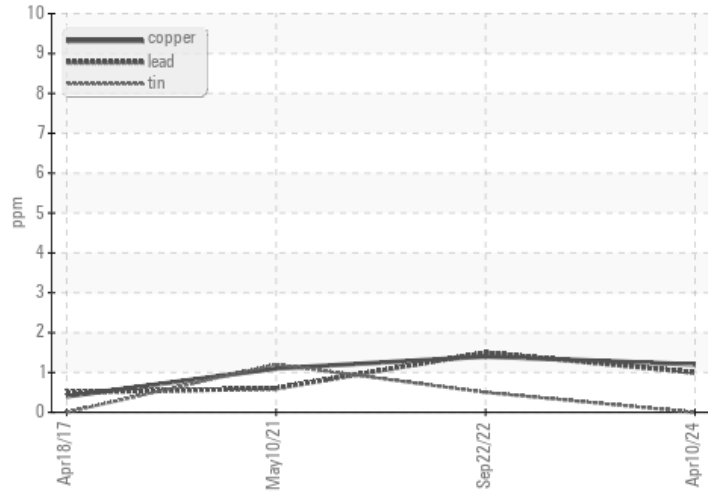


## VOLVO GRAPHS

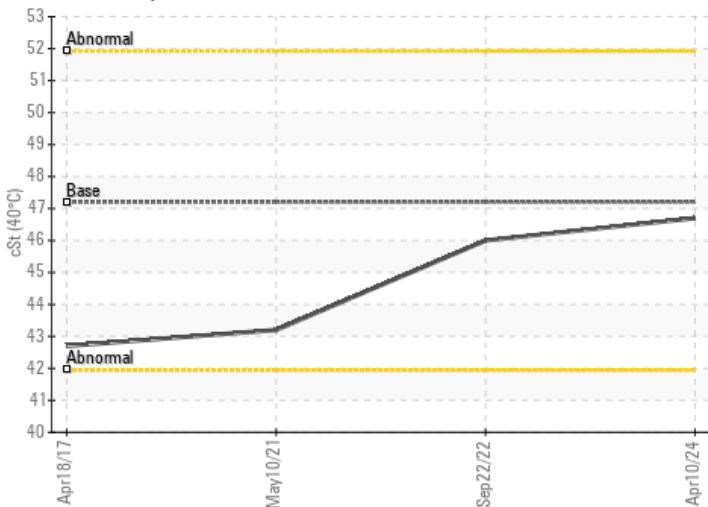
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

