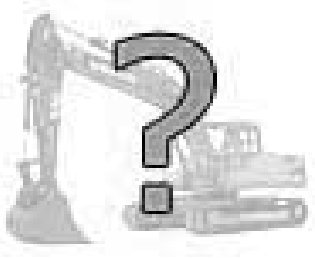
CONSTRUCTION EQUIPMENT

SIMS SENNEBOGEN 830 830.0.3197 - HYDRAULIC SYSTEM

Sample No: VCP430809
Oil Type: SENNEBOGEN HO46
Job No: SIMS



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SAMPLE INFORMATION

Sample Number		**VCP430809**	VCP401665	---	---
Sample Date		**17 Nov 2023**	15 May 2023	---	---
Machine Hours		**2861**	2002	---	---
Oil Hours		**2861**	2000	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**ABNORMAL**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	▲ **34.1**	▲ 34.6	---	---
Acid Number (AN)	mg KOH/g	**1.00**	1.03	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		▲ **12479**	▲ 15409	---	---
Particles >6µm		▲ **1865**	▲ 3282	---	---
Particles >14µm		**89**	152	---	---
ISO 4406:1999 (c)		**21/18/14**	21/19/14	---	---
Silicon	ppm	**2**	2	---	---
Sodium	ppm	**7**	<1	---	---
Potassium	ppm	**0**	2	---	---

WEAR METALS

Iron	ppm	**6**	6	---	---
Copper	ppm	**15**	15	---	---
Lead	ppm	**2**	2	---	---
Tin	ppm	**0**	<1	---	---
Aluminum	ppm	**<1**	<1	---	---
Chromium	ppm	**0**	0	---	---
Molybdenum	ppm	**0**	<1	---	---
Nickel	ppm	**0**	<1	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**0**	0	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1107**	1163	---	---
Magnesium	ppm	**2**	3	---	---
Zinc	ppm	**672**	699	---	---
Phosphorus	ppm	**515**	532	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	0	---	---

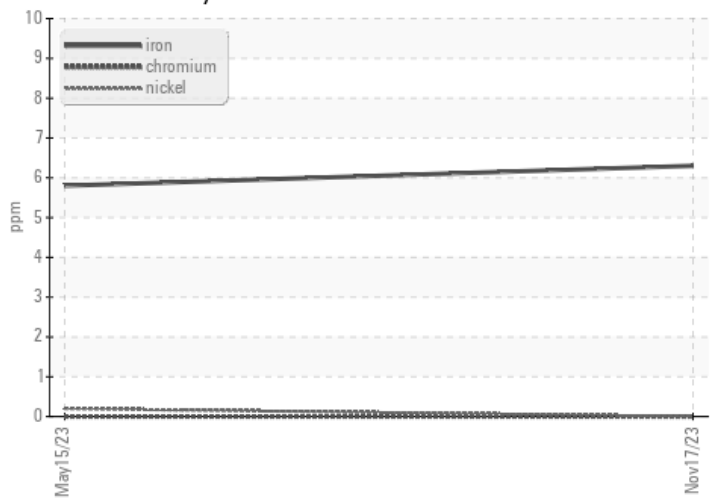
Diagnosis

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 high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

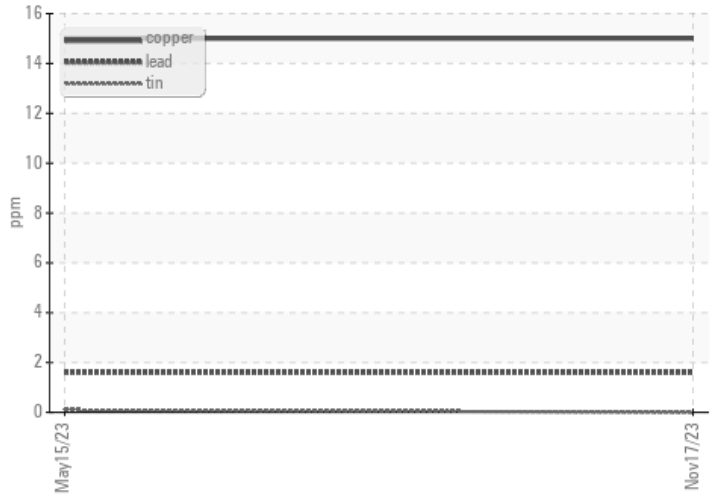
Depot: GRESOUNJ
Unique No: 10756407
Signed: Jonathan Hester
Report Date: 29 Nov 2023

GRAPHS

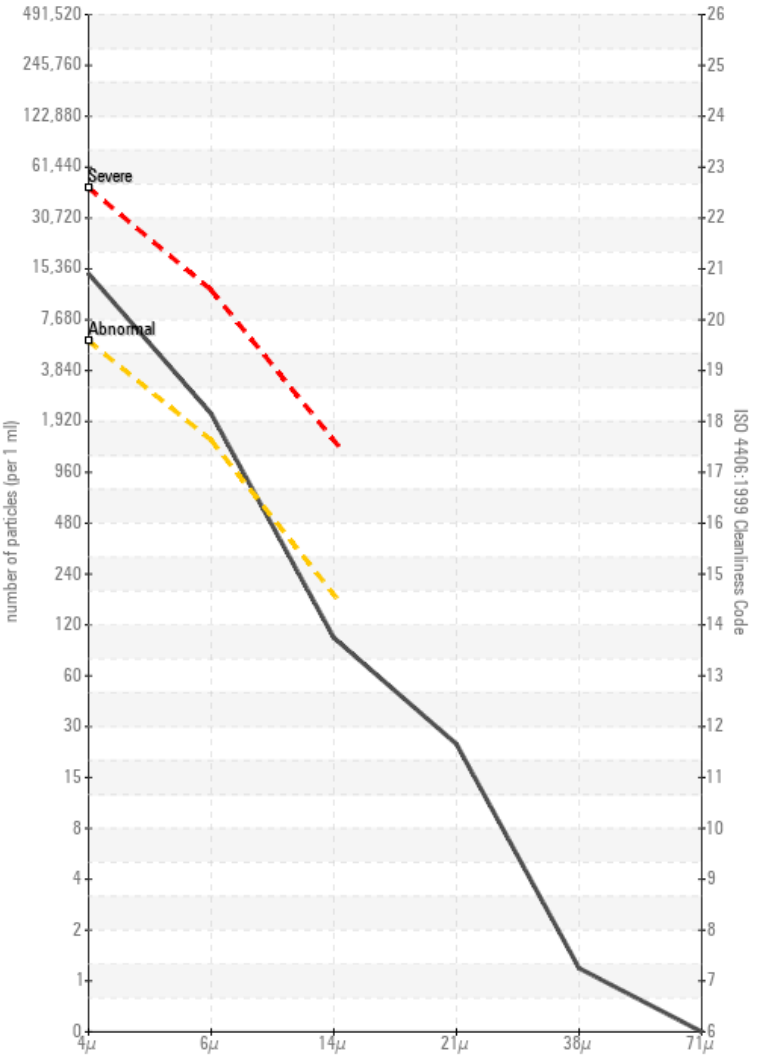
Ferrous Alloys



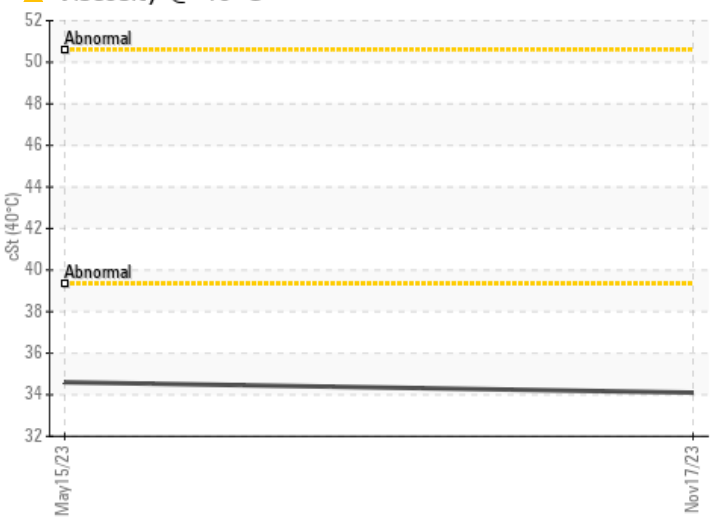
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number