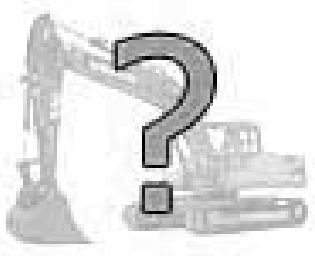
CONSTRUCTION EQUIPMENT

SWA560052-10 ALTER SENNEBOGEN 835 835.0.2949 - LEFT SWING DRIVE

Sample No: VCP453608
Oil Type: SHELL OMALA S4 GX 220
Job No: SWA560052-10 ALTER



ALTA EQUIPMENT COMPANY
1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705
Contact: MIKE MARTIN
mike.martin@altaequipment.com
T:
F:

SAMPLE INFORMATION

Sample Number		**VCP453608**	VCP434158	VCP396391	---
Sample Date		**17 May 2024**	01 Mar 2024	10 Oct 2023	---
Machine Hours		**5900**	5345	4362	---
Oil Hours		**2000**	1000	2000	---
Oil Changed		**Changed**	Not Changd	Changed	---
Sample Status		**ABNORMAL**	NORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**227**	236	215	---

CONTAMINATION

Water	%	▲ **0.569**	NEG	▲ 0.366	---
Silicon	ppm	**11**	9	18	---
Sodium	ppm	**<1**	3	0	---
Potassium	ppm	**2**	1	0	---

WEAR METALS

Iron	ppm	▲ **454**	262	▲ 470	---
Copper	ppm	**93**	63	101	---
Lead	ppm	**<1**	<1	0	---
Tin	ppm	**9**	6	12	---
Aluminum	ppm	**2**	2	<1	---
Chromium	ppm	**3**	2	2	---
Molybdenum	ppm	**<1**	<1	0	---
Nickel	ppm	**1**	2	2	---
Titanium	ppm	**<1**	<1	0	---
Silver	ppm	**<1**	0	0	---
Manganese	ppm	**3**	2	4	---
Vanadium	ppm	**<1**	<1	0	---

ADDITIVES

Calcium	ppm	**6**	9	9	---
Magnesium	ppm	**2**	1	4	---
Zinc	ppm	**56**	52	71	---
Phosphorus	ppm	**420**	407	341	---
Barium	ppm	**0**	0	2	---
Boron	ppm	**21**	16	5	---

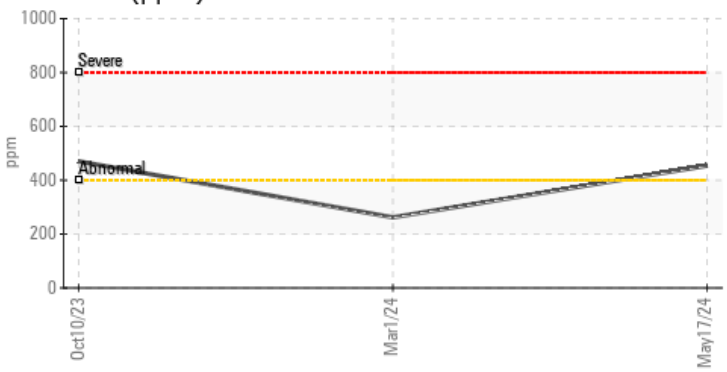
Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

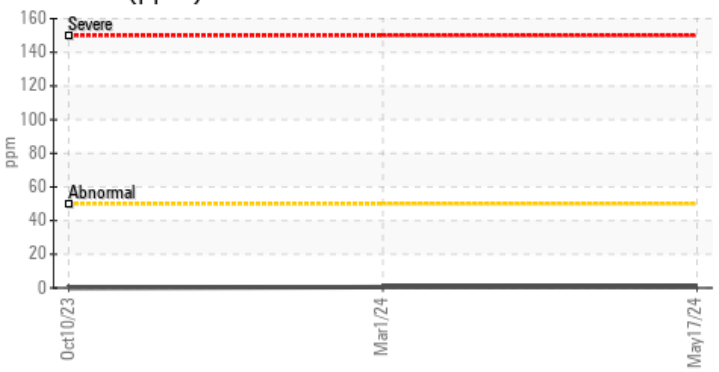
Depot: VOLVO5054
Unique No: 11046313
Signed: Don Baldridge
Report Date: 28 May 2024

GRAPHS

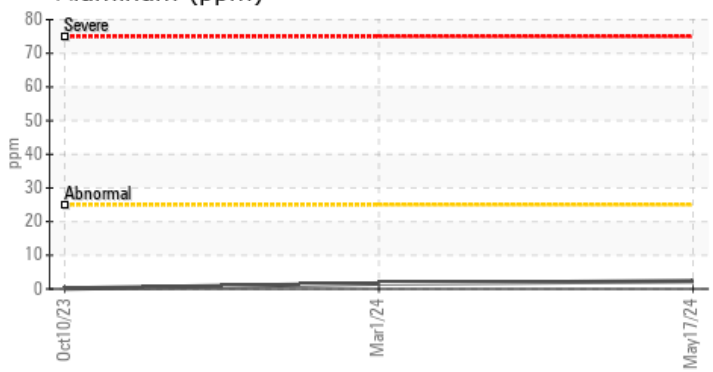
Iron (ppm)



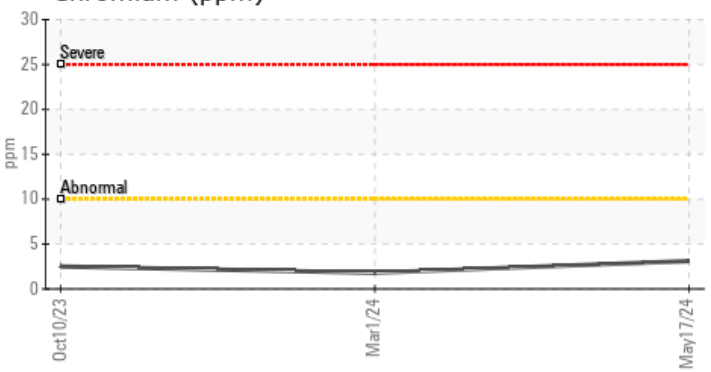
Lead (ppm)



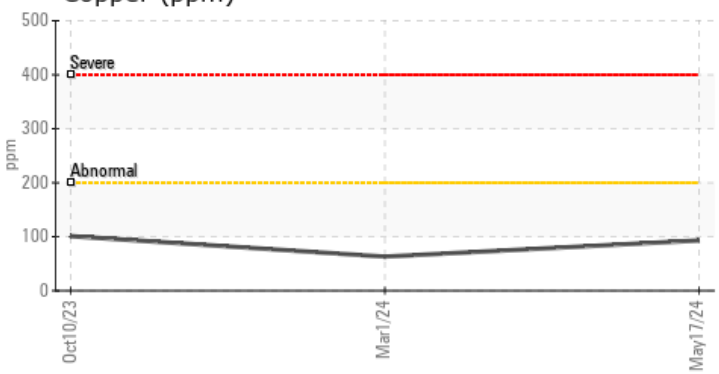
Aluminum (ppm)



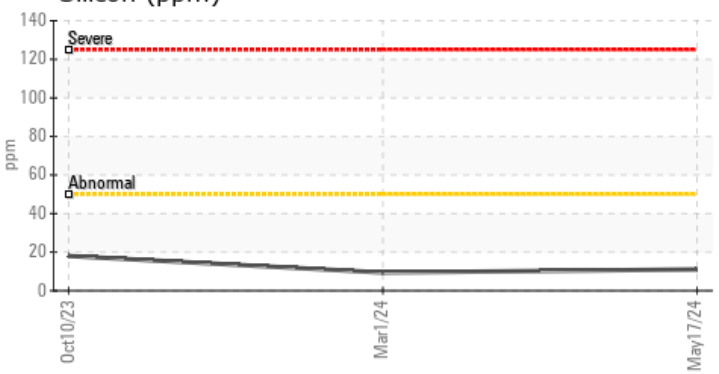
Chromium (ppm)



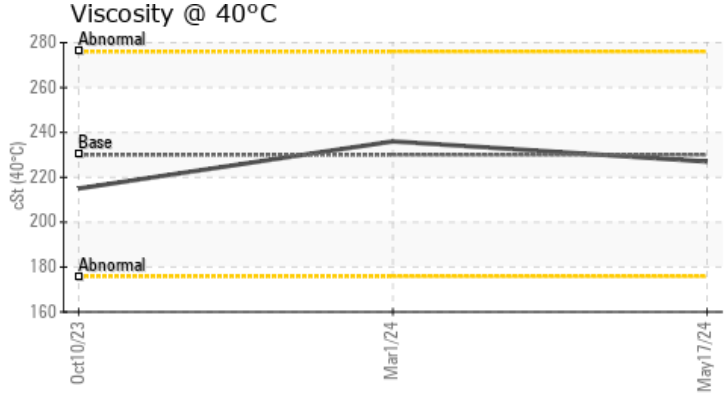
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Water