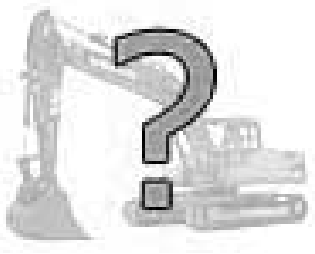
CONSTRUCTION EQUIPMENT

SPM593187 ALTER SB SENNEBOGEN 840E 840.0.2350 - DIESEL ENGINE

Sample No: VCP387101
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM593187 ALTER SB



ALTA CONSTRUCTION EQUIPMENT
613 E STEVENSON RD
OTTAWA, IL
US 61350
Contact: KEVIN SKRTICH
KEVIN.SKRTICH@ALTAEQUIPMENT.COM
T:
F:

SAMPLE INFORMATION

Sample Number		**VCP387101**	VCP419217	VCP396899	VCP399587
Sample Date		**02 Aug 2023**	30 May 2023	14 Apr 2023	13 Feb 2023
Machine Hours		**2444**	1950	1575	1084
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**NORMAL**	NORMAL	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 100°C	cSt	**13.9**	14.0	13.4	▲ 12.3
Base Number (BN)	mg KOH/g	**8.5**	9.3	7.9	9.9
Oxidation (PA)	%	**61**	62	63	88

CONTAMINATION

Soot %	%	**0.2**	0.2	0.1	0.2
Nitration (PA)	%	**61**	58	63	76
Sulfation (PA)	%	**52**	54	49	62
Glycol	%	**NEG**	NEG	NEG	NEG
Fuel	%	**<1.0**	<1.0	<1.0	▲ 4.2
Silicon	ppm	**2**	2	3	4
Sodium	ppm	**0**	0	0	0
Potassium	ppm	**13**	4	5	7

WEAR METALS

Iron	ppm	**6**	6	7	14
Copper	ppm	**<1**	<1	1	2
Lead	ppm	**0**	0	0	0
Tin	ppm	**<1**	0	0	<1
Aluminum	ppm	**5**	0	<1	2
Chromium	ppm	**<1**	0	<1	<1
Molybdenum	ppm	**60**	58	52	47
Nickel	ppm	**<1**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**<1**	0	0	0
Manganese	ppm	**<1**	0	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1047**	1040	1050	1664
Magnesium	ppm	**910**	848	908	504
Zinc	ppm	**1198**	1146	1226	1079
Phosphorus	ppm	**1003**	966	958	896
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	0	4	49

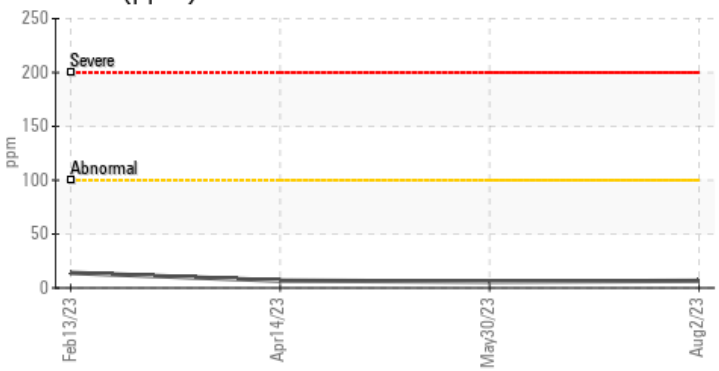
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

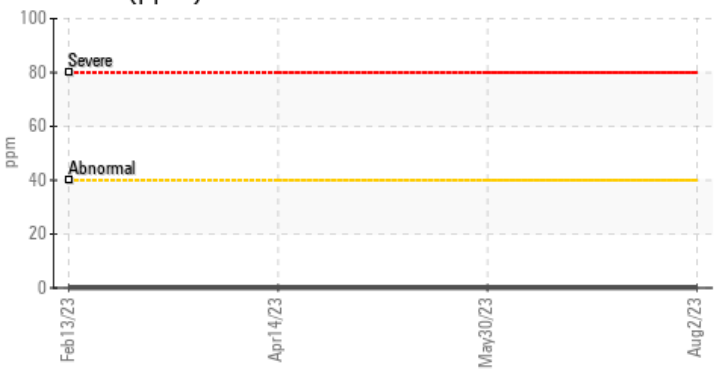
Depot: VOLVO5055
Unique No: 10589098
Signed: Wes Davis
Report Date: 08 Aug 2023

GRAPHS

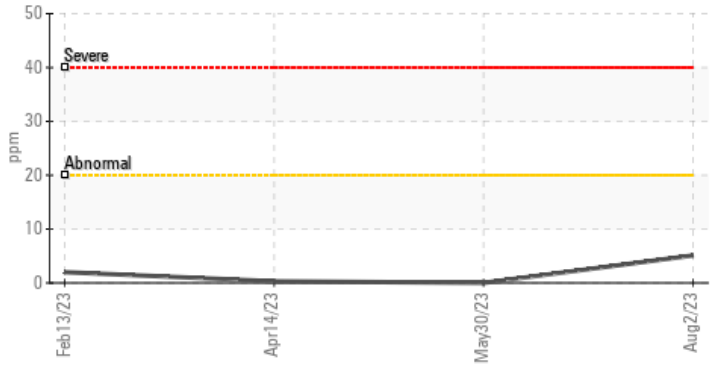
Iron (ppm)



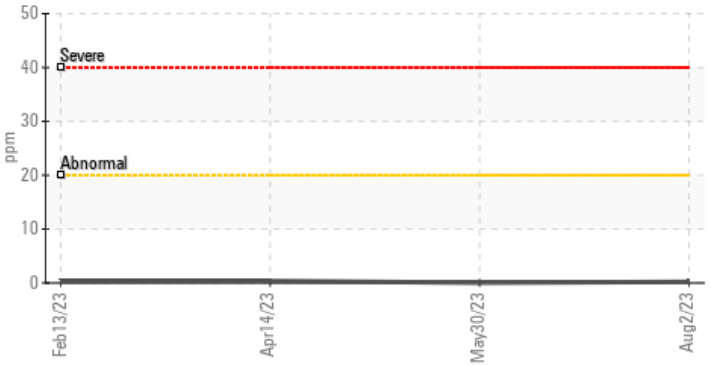
Lead (ppm)



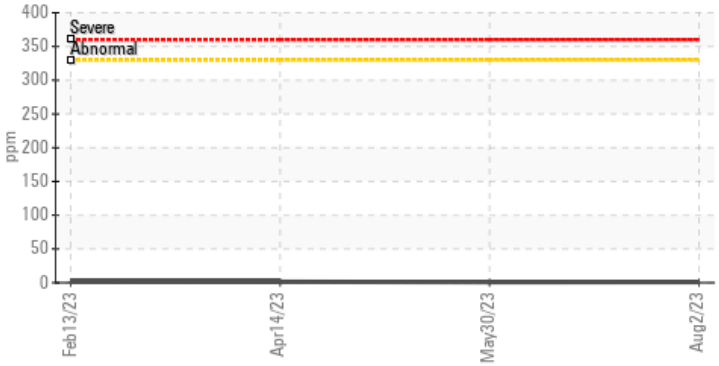
Aluminum (ppm)



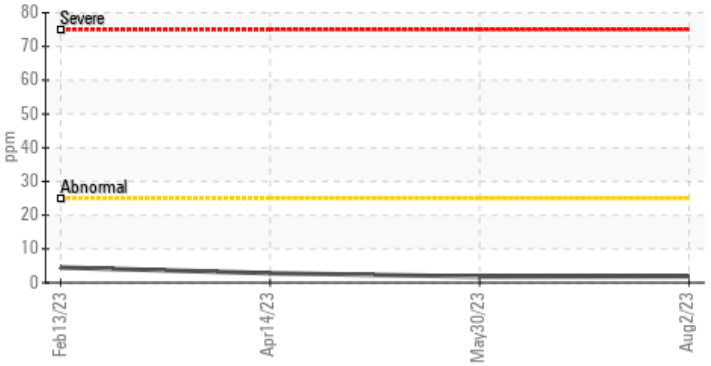
Chromium (ppm)



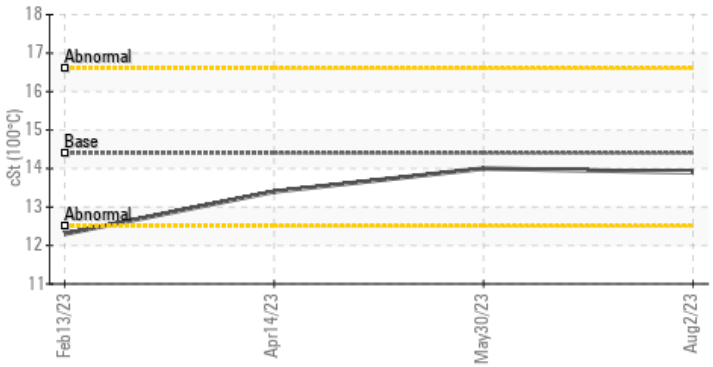
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number