



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**[SPM660156]**  
 Machine Id  
**SENNEBOGEN 835ME 835.0.3070**  
 Component  
**Front Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP421626</b>	VCP411405	VCP402116
Sample Date		Client Info		<b>11 Jan 2024</b>	11 Aug 2023	20 Mar 2023
Machine Age	hrs	Client Info		<b>3166</b>	2080	1076
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>195</b>	226	76
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>▲ 56</b>	▲ 72	▲ 75
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the oil.

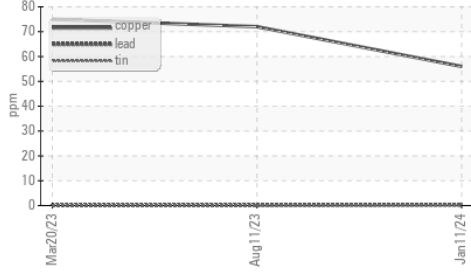
Silicon	ppm	ASTM D5185m	>75	<b>14</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	MODER	MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

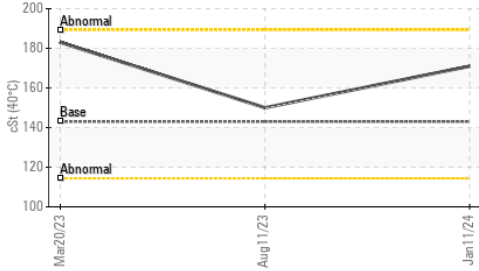
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<b>4</b>	6	8
Boron	ppm	ASTM D5185m	400	<b>22</b>	25	0
Barium	ppm	ASTM D5185m	200	<b>39</b>	74	242
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>5</b>	7	8
Magnesium	ppm	ASTM D5185m	12	<b>32</b>	0	2
Calcium	ppm	ASTM D5185m	150	<b>1473</b>	21	17
Phosphorus	ppm	ASTM D5185m	1650	<b>976</b>	1018	1245
Zinc	ppm	ASTM D5185m	125	<b>631</b>	56	90
Sulfur	ppm	ASTM D5185m	22500	<b>14355</b>	22873	24003
Visc @ 40°C	cSt	ASTM D445	143	<b>171</b>	150	183

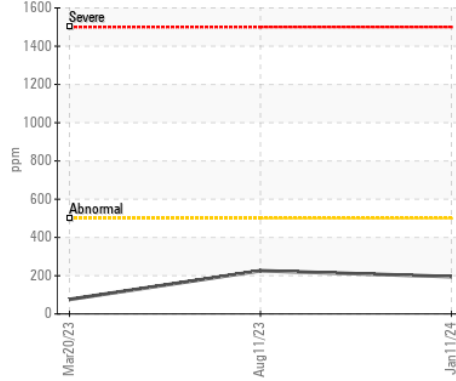
▲ Non-ferrous Metals



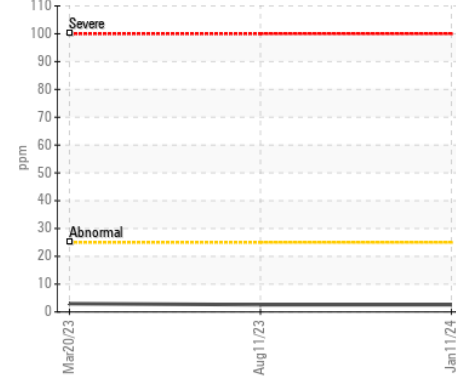
Viscosity @ 40°C



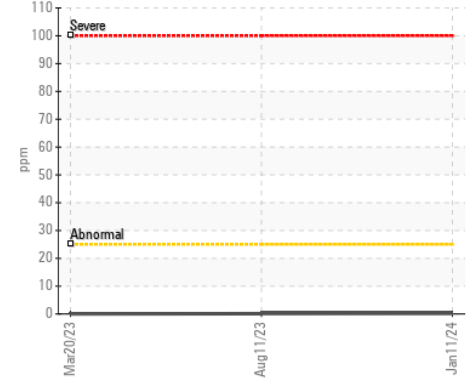
Iron (ppm)



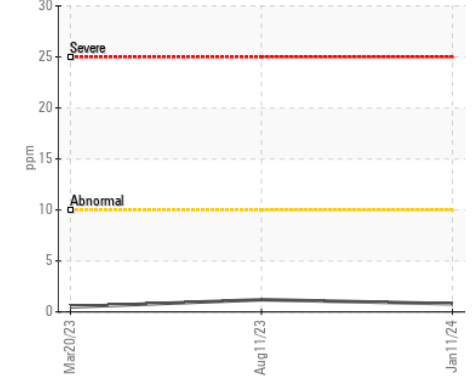
Aluminum (ppm)



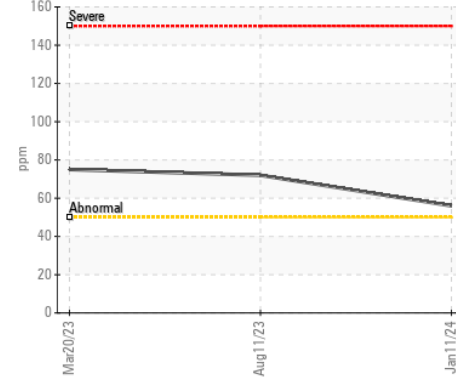
Lead (ppm)



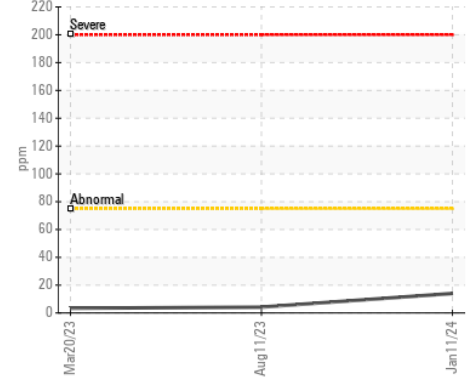
Chromium (ppm)



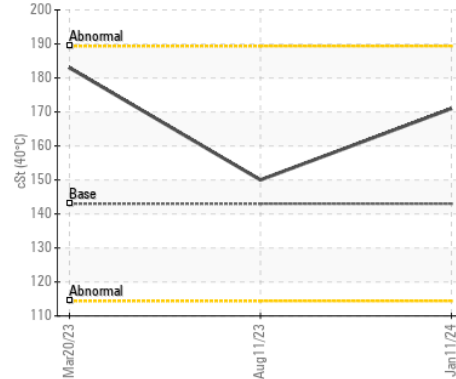
▲ Copper (ppm)



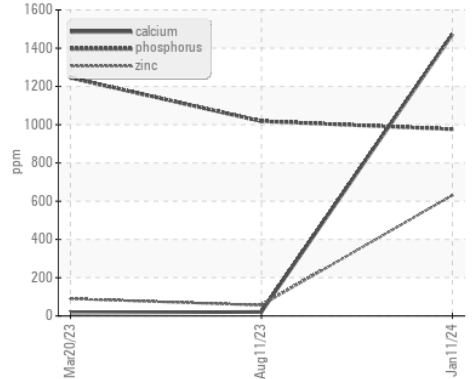
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP421626  
 Lab Number : 06101999  
 Unique Number : 10900229  
 Test Package : MOB 1

Received : 27 Feb 2024  
 Tested : 29 Feb 2024  
 Diagnosed : 29 Feb 2024 - Jonathan Hester

**BELSON STEEL**  
 1685 N STATE RTE 50  
 BOURBONNAIS, IL  
 US 60914  
 Contact: M. POZAN  
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 T: (815)932-7416  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)