

**WEAR CONTAMINATION FLUID CONDITION** 

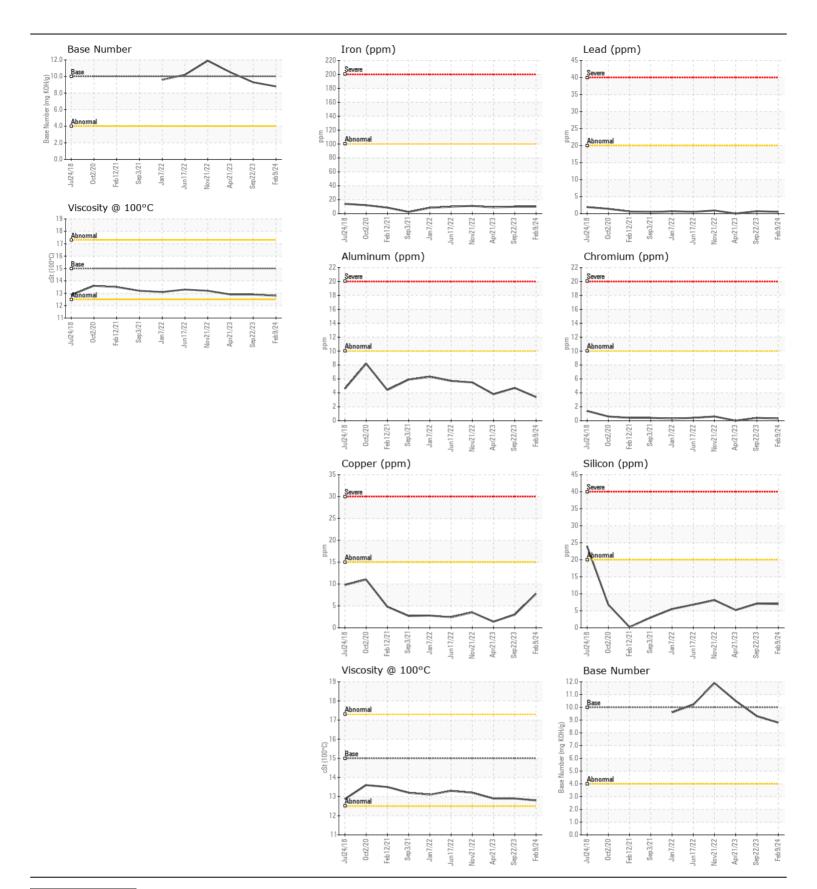
**NORMAL NORMAL NORMAL** 



Area [SWO069350] **VOLVO EC300ELR 311843** 

Component Diesel Engine

RECOMMENDATION  Test UOM Method Limit/Abn Current VCP431839 VCP42	
Sample Number   Client Info   VCP431839   VCP42	1 History2
December at the most conductive to the most to most to mention	
Resample at the next service interval to monitor.  Sample Date  Client Info  09 Feb 2024  22 Sep	2023 21 Apr 20
Machine Age hrs Client Info 5843 5320	4800
Oil Age hrs Client Info 0 0	0
Filter Age hrs Client Info 0 0	0
Oil Changed Client Info Changed Change	ed Change
Filter Changed Client Info Changed Changed	
Sample Status NORMAL NORM	AL NORMA
WEAR         Iron         ppm         ASTM D5185m         >100         10         10	9
Chromium ppm ASTM D5185m >10 <1 <1	0
All component wear rates are normal.  Nickel ppm ASTM D5185m >10 0	0
Titanium ppm ASTM D5185m <1 <1	0
Silver ppm ASTM D5185m >2 <b>0</b> 0	0
Aluminum ppm ASTM D5185m >10 3 5	4
<b>Lead</b> ppm ASTM D5185m >20 <b>&lt;1</b> <1	0
Copper         ppm         ASTM D5185m         >15         8         3	1
Tin ppm ASTM D5185m >10 <1 <1	0
Vanadium ppm ASTM D5185m <b>0</b> 0	0
White Metal scalar *Visual NONE NONE NO	
Yellow Metal scalar *Visual NONE NONE NO	
CONTAMINATION Silicon ppm ASTM D5185m >20 7 7	5
Potassium ppm ASTM D5185m >20 3 6	1
There is no indication of any contamination in the oil. Fuel WC Method >6.0 <1.0 <1.	<1.0
Water WC Method >0.1 NEG NE	
Glycol WC Method NEG NE	
Soot % % *ASTM D7844 >3 <b>0.1</b> 0.1	0.1
<b>Nitration</b> Abs/cm *ASTM D7624 >20 <b>7.8</b> 6.8	6.8
<b>Sulfation</b> Abs/.1mm *ASTM D7415 >30 <b>20.2</b> 21.	
Silt scalar *Visual NONE NONE NO	
Debris scalar *Visual NONE NONE NO	NE NONE
Sand/Dirt scalar *Visual NONE NONE NO	NE NONE
Appearance scalar *Visual NORML NORML NO	RML NORM
Odor scalar *Visual NORML NORML NO	
	NEG
Emulsified Water   scalar   *Visual   >0.1   NEG   NE	
	2
Sodium   ppm   ASTM D5185m   0   5	2 52
FLUID CONDITION  Sodium ppm ASTM D5185m 0 5  Boron ppm ASTM D5185m 2.5 72 41  The BN result indicates that there is suitable alkalinity remaining in the Barium ppm ASTM D5185m 0.0 12 0	
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FLUID CONDITION  Sodium ppm ASTM D5185m 0 5  Boron ppm ASTM D5185m 2.5 72 41  Barium ppm ASTM D5185m 0.0 12 0  Molybdenum ppm ASTM D5185m 0.0 76 45	52 0 45 <1
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the bil. The condition of the oil is suitable for further service.  Sodium ppm ASTM D5185m 0.0 5  Boron ppm ASTM D5185m 0.0 12 0  Molybdenum ppm ASTM D5185m 0.7 76 45  Manganese ppm ASTM D5185m 0.0 0 1	52 0 45 <1 553
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the bil. The condition of the oil is suitable for further service.  Sodium ppm ASTM D5185m 2.5 72 41  Barium ppm ASTM D5185m 0.0 12 0  Molybdenum ppm ASTM D5185m 0.7 76 45  Manganese ppm ASTM D5185m 0.0 0 1  Magnesium ppm ASTM D5185m 0.0 0 1	52 0 45 <1 553 8 1693
Sodium   ppm   ASTM D5185m   0   5	52 0 45 <1 553 8 1693 833
Sodium   ppm   ASTM D5185m   0   5	52 0 45 <1 553 8 1693 833 0 1038
Sodium   ppm   ASTM D5185m   0   5	52 0 45 <1 553 8 1693 833 0 1038 4 2855
Sodium   ppm   ASTM D5185m   Dot	52 0 45 <1 553 8 1693 833 0 1038 4 2855







Laboratory Sample No.

: VCP431839 Lab Number : 06088600 Unique Number : 10876045

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 14 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Sean Felton

SAIIA CONSTRUCTION LLC 4400 LEWISBURG RD

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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) F: (205)943-2269

Report Id: SAIBIR [WUSCAR] 06088600 (Generated: 02/15/2024 16:27:59) Rev: 1