WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION

Area

[25493]

**VOLVO A45G 752364** 



Test	ry1 History
Sample Date   Client Info   17 Apr 2024	
## Action is recommended at this time. Hesample at the next service interval to monitor.    Machine Age	
Oil Age   hrs   Client Info   Oil Oil Changed   Filter Age   hrs   Client Info   Oil Changed   Client Info   Oil Changed   Client Info   Changed   Changed   Client Info   Changed   Changed   Client Info   Changed	
Filter Age	
Oil Changed   Filter Changed   Client Info   Changed   Changed   Sample Status   Client Info   Changed   ABNORMAL	
Filter Changed   Sample Status   Stat	
VEAR	
Chromium	
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core), All other metal levels are typical for a new component breaking in.    Silver   ppm   ASTM D5185m   >20	
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.  Nickel ppm ASTM D5185m >2 2 0 1 11 11 11 11 11 11 11 11 11 11 11 11	
Mickel   Spin   Shim bottom   School   Shim bottom   Shi	
Intanium   ppm   ASTM D5185m   <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1	
Aluminum ppm ASTM D5185m >25 2  Lead ppm ASTM D5185m >40 4  Copper ppm ASTM D5185m >330 4 364  Tin ppm ASTM D5185m >15 4  Vanadium ppm ASTM D5185m >25 25  Potassium ppm ASTM D5185m >20 <1  Fuel content negligible. There is no indication of any contamination in the oil.  Silicon ppm ASTM D5185m >25 25  Potassium ppm ASTM D5185m >20 <1  Fuel % ASTM D5254 >6.0 0.4  Water WC Method NEG  Glycol WC Method NEG  Soot % % 'ASTM D7844 >3 0.3  Nitration Abs/cm 'ASTM D7844 >3 0.3  Nitration Abs/cm 'ASTM D7844 >3 0.3  Silit scalar 'Visual NONE NONE  Debris scalar 'Visual NONE NONE  Debris scalar 'Visual NONE NONE  Appearance scalar 'Visual NONE NONE  Appearance scalar 'Visual NORML NORML NORML  Appearance scalar 'Visual NORML NORML NORML  Appearance scalar 'Visual NORML NORML  ASTM D5185m 2.5 39  The oil viscosity is lower than normal. The BN result indicates that	
Lead	
Copper   ppm   ASTM D5185m   >330   364     364	
Tin	
Vanadium	
White Metal Yellow Metal   Scalar *Visual NONE NONE NONE   NONE Yellow Metal   Scalar *Visual NONE NONE   NONE NONE   NONE   NONE NONE	
Yellow Metal   scalar   *Visual   NONE   N	
Silicon   ppm   ASTM D5185m   >25   25	
Potassium   ppm   ASTM D5185m   >20   <1	
Fuel content negligible. There is no indication of any contamination in the oil.  Fuel % ASTM D3524 > 6.0 0.4	
the oil.    Water   WC Method   >0.2   NEG	
Water   WC Method   >0.2   NEG	
Soot %	
Nitration Abs/cm *ASTM D7624 >20 9.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Boron ppm ASTM D5185m 3 Boron ppm ASTM D5185m 0.0 0 Barium ppm ASTM D5185m 0.0 0	
Sulfation   Abs/.1mm *ASTM D7415   >30   19.3   Silt   scalar *Visual   NONE   NONE   NONE   Debris   scalar *Visual   NONE   NONE   NONE   Sand/Dirt   scalar *Visual   NONE   NONE   NONE   Appearance   scalar *Visual   NORML   NORML   NORML   Odor   scalar *Visual   NORML   NORML   NORML   NORML   NORML   Emulsified Water   scalar *Visual   >0.2   NEG    FLUID CONDITION   Sodium   ppm   ASTM D5185m   3   Boron   ppm   ASTM D5185m   2.5   39   Barium   ppm   ASTM D5185m   0.0   0	
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML Scalar *Visual NORML Scalar *Visual NORML NOR	
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Semulsified Water scalar *Visual	
Sand/Dirt scalar *Visual NONE NORE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Femulsified Water scalar *Visual NORML NORML NORML Scalar *Visual NORML NORML NORML NORML NORML Scalar *Visual NORML NORML NORML NORML NORML NORML Scalar *Visual NORML NORML NORML NORML NORML NORML Scalar *Visual NORML N	
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual NORML NORML Scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG	
Odor   scalar *Visual   NORML	
Emulsified Water   scalar   *Visual   >0.2   NEG    FLUID CONDITION  Sodium   ppm   ASTM D5185m   3    Boron   ppm   ASTM D5185m   2.5   39    Barium   ppm   ASTM D5185m   0.0   0	
FLUID CONDITION  Sodium ppm ASTM D5185m 3 Boron ppm ASTM D5185m 2.5 39 The oil viscosity is lower than normal. The BN result indicates that  Barium ppm ASTM D5185m 0.0 0	
The oil viscosity is lower than normal. The BN result indicates that  Boron ppm ASTM D5185m 2.5 39  Barium ppm ASTM D5185m 0.0 0	
The oil viscosity is lower than normal. The BN result indicates that	
there is suitable alkalinity remaining in the oil. Confirm oil type	
Molybdenum ppm ASIM D5185m 0.7 79	
Manganese ppm ASTM D5185m 0.0 2	
Magnesium         ppm         ASTM D5185m         256         34	
Calcium ppm ASTM D5185m 2057 <b>2136</b>	
Phosphorus ppm ASTM D5185m 935 <b>891</b>	
Zinc ppm ASTM D5185m 1223 1026	
Sulfur         ppm         ASTM D5185m         4079         3844            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.6	

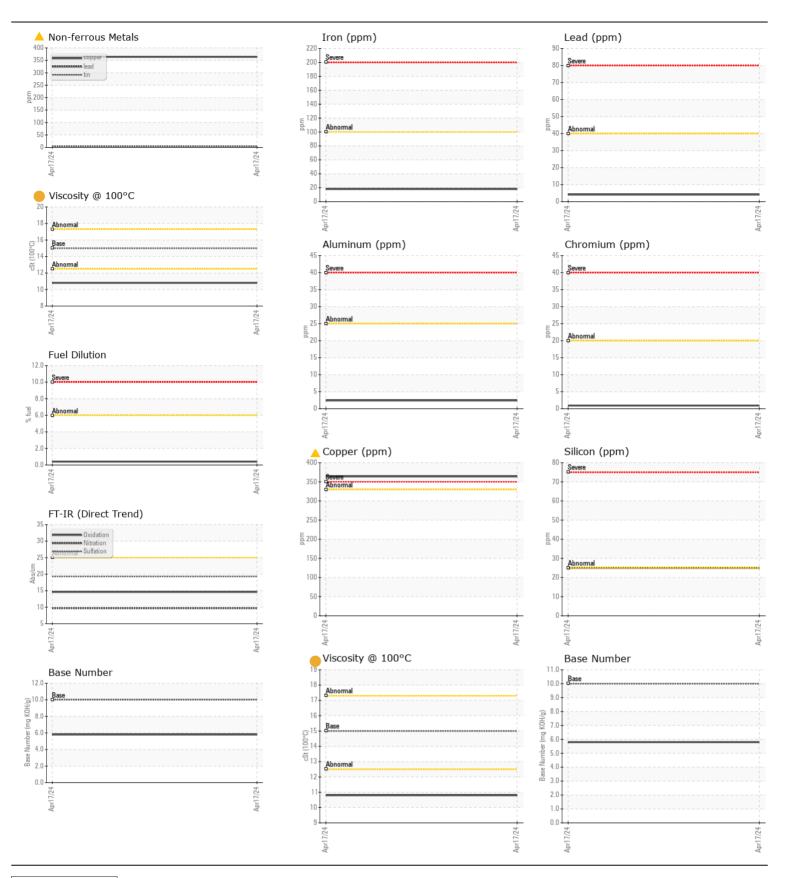
Base Number (BN) mg KOH/g ASTM D2896 10

ASTM D445 15.0

Visc @ 100°C cSt

5.8

10.8





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP421590 Lab Number : 06155540

Received **Tested** Unique Number: 10990963 Diagnosed

: 25 Apr 2024 : 25 Apr 2024 - Don Baldridge Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 22 Apr 2024

218 - ASCENDUM MACHINERY INC - N. CHARLESTON 7235 CROSS COUNTRY RD. NORTH CHARLESTON, SC US 29418

Contact: MATT MITCHAM matt.mitcham@ascendummachinery.com T:

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)

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