OIL ANALYSIS REPORT



[W/O 10979] Machine Id VOLVO EC480 310440 Component Left Swing Drive

MOBIL MOBILUBE HD 85W140 (2 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

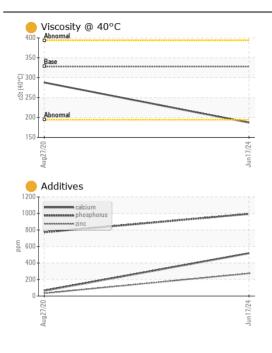
	-		
FLU			ION
		001	

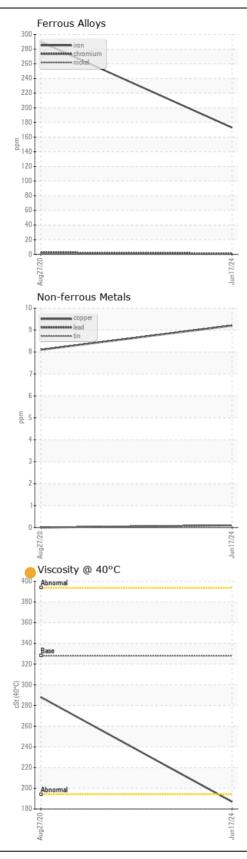
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberIClient InfoML0002114VCP286200Sample DateClient Info17 Jun 202027 Aug 2020Machine AgehrsClient Info61474753Oil AgehrsClient InfoI3940Filter AgehrsClient InfoI13940Oil Changed'Client InfoI00Filter ChangedIClient InfoMAN/AGli Changed'Client InfoMAN/ASample Status'Client InfoN/AN/AIronppmASTM D5185m>12001132900NickelppmASTM D5185m>1000NickelppmASTM D5185m>1000SilverppmASTM D5185m>50<10AuminumppmASTM D5185m>50<10CopperppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>1000.0VanadiumppmASTM D5185m>1
Sample DateClient InfoI7 Jun 202427 Aug 202Machine AgehrsClient Info61474753Oil AgehrsClient Info13940Filter AgehrsClient Info00Oil ChangedClient InfoMN/AN/AFilter ChangedIClient InfoN/AN/AFilter ChangedIClient InfoN/AN/ASample StatusClient InfoMN/ANORMALIronppmASTM D5185>120173290NickelppmASTM D5185>1012NickelppmASTM D5185>100AuminumppmASTM D5185>100AuminumppmASTM D5185>5010LeadppmASTM D5185>1010ChangeuppmASTM D5185>5010VanadiumppmASTM D5185>1010NaminumppmASTM D5185>1010SilverppmASTM D5185>1010AuminumppmASTM D5185>1010PuedppmASTM D5185>1010VanadiumppmASTM D5185>1010 </th
Machine Age Oil AgehrsClient Info61474753Oil AgehrsClient Info13940Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedFilter ChangedIClient InfoN/AN/ASample StatusClient InfoN/AN/AIronppmASTM D5185m>120017302900NickelppmASTM D5185m>10012NickelppmASTM D5185m>1000<SilverppmASTM D5185m>255<1<1<AuminumppmASTM D5185m>50098CopperppmASTM D5185m>10<1VanadiumppmASTM D5185m>10<1VanadiumppmASTM D5185m>5098VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10AVisualNONE
Oil AgehrsClient Info13940Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedFilter ChangedIClient InfoN/AN/ASample StatusClient InfoM/AN/AIronppmASTM D5185m>12001732900ChromiumppmASTM D5185m>10012NickelppmASTM D5185m>100<<SilverppmASTM D5185m>100<<AluminumppmASTM D5185m>500<1LeadppmASTM D5185m>500<10VanadiumppmASTM D5185m>100KopperppmASTM D5185m>500<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10Vanadium<
Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedFilter ChangedIClient InfoN/AN/ASample StatusClient InfoM/AN/AIronppmASTM D5185m>120017332900ChromiumppmASTM D5185m>10012NickelppmASTM D5185m>1000NickelppmASTM D5185m>1000SilverppmASTM D5185m>1000AluminumppmASTM D5185m>500<10LeadppmASTM D5185m>500<10CopperppmASTM D5185m>100<0VanadiumppmASTM D5185m>1000White Metalscalar*VisualNONENONEILGHTSiliconppmASTM D5185m>100SiliconppmASTM D5185m>1000SiliconppmASTM D5185m>100ILGHTSiliconppmASTM D5185m>100NONEILGHTSiliconppmASTM D5185m>100NONESiliconppmASTM D5185m>100ILGHTSiliconppmASTM D5185m>100ILGHT
Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoN/AN/ASample StatusATTENTIONNORMALIronppmASTM D5185m>120017332900ChromiumppmASTM D5185m>10012NickelppmASTM D5185m>1000<1SilverppmASTM D5185m>1000<1AluminumppmASTM D5185m>250<1<1CopperppmASTM D5185m>500<10VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>500<10VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>100<10VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185mNONENONEILIGHTVanadiumppmASTM D5185m>100TVanadiumppmASTM D5185m>100NONEILIGHTSiliconppmASTM D5185m>100TNontefunctionfunctionfunctionfunctionSiliconppm
Filter ChangedClient InfoN/AN/ASample StatusATTENTIONNORMALIronppmASTM D5185m>120017332900ChromiumppmASTM D5185m>10012NickelppmASTM D5185m>1000<1TitaniumppmASTM D5185m>1000SilverppmASTM D5185m>25<1<1AluminumppmASTM D5185m>500<10LeadppmASTM D5185m>500<10CopperppmASTM D5185m>100<10TinppmASTM D5185m>100<10White Metalscalar*VisualNONENONEILIGHTSiliconppmASTM D5185m>10073
Sample StatusATTENTIONNORMALIronppmASTM D5185m>120017332900ChromiumppmASTM D5185m>10012NickelppmASTM D5185m>1000<1TitaniumppmASTM D5185m>1000<SilverppmASTM D5185m>1000AluminumppmASTM D5185m>250<1<10LeadppmASTM D5185m>500<100CopperppmASTM D5185m>500<10VanadiumppmASTM D5185m>100<0White Metalscalar*VisualNONENONELIGHTSiliconppmASTM D5185m>10073SiliconppmASTM D5185m>100NONENONEILGHTSiliconppmASTM D5185m>100NONENONEILGHT
Iron ppm ASTM D5185m >1200 173 290 Chromium ppm ASTM D5185m >100 1 2 Nickel ppm ASTM D5185m >10 0 <1 2 Titanium ppm ASTM D5185m >10 0 <1 <1 <1 <1 Silver ppm ASTM D5185m >10 0 <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 <t< th=""></t<>
Chromium ppm ASTM D5185m >10 1 2 Nickel ppm ASTM D5185m >10 0 <1 Titanium ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m <1 <1 Aluminum ppm ASTM D5185m >25 <1 <1 Aluminum ppm ASTM D5185m >25 <1 <1 Lead ppm ASTM D5185m >50 <1 0 Copper ppm ASTM D5185m >50 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 White Metal scalar *Visual NONE NONE ILIGHT Silicon ppm ASTM D5185m >100 7 3
Chromium ppm ASTM D5185m >10 1 2 Nickel ppm ASTM D5185m >10 0 <1 Titanium ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m <1 <1 Aluminum ppm ASTM D5185m >25 <1 <1 Aluminum ppm ASTM D5185m >25 <1 <1 Lead ppm ASTM D5185m >50 <1 0 Copper ppm ASTM D5185m >50 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 White Metal scalar *Visual NONE NONE ILIGHT Silicon ppm ASTM D5185m >100 7 3
NickelppmASTM D5185m>100<1
Titanium ppm ASTM D5185m <1
Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 <1 <1 <1 Lead ppm ASTM D5185m >50 <1 00 Copper ppm ASTM D5185m >500 <1 00 Tin ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 White Metal scalar *Visual NONE NONE LIGHT Silicon ppm ASTM D5185m >100 7 3
Aluminum ppm ASTM D5185m >25 <1
LeadppmASTM D5185m>50<1
Copper ppm ASTM D5185m >50 9 8 Tin ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 White Metal scalar *Visual NONE NONE LIGHT Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >100 7 3
Tin ppm ASTM D5185m >10 <1
VanadiumppmASTM D5185m00White Metalscalar*VisualNONENONELIGHTYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>10073
White Metal scalar *Visual NONE NONE LIGHT Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >100 7 3
Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >100 7 3
Silicon ppm ASTM D5185m >100 7 3
Potassium ppm ASTM D5185m >20 3 <1
Water WC Method >0.25 NEG NEG
Silt scalar *Visual NONE NONE NONE
Debris scalar *Visual NONE LIGHT NONE
Sand/Dirt scalar *Visual NONE NONE NONE
Appearance scalar *Visual NORML NORML NORML
Odor scalar *Visual NORML NORML NORML
Emulsified Water scalar *Visual >0.25 NEG NEG
Sodium ppm ASTM D5185m 1 0
Boron ppm ASTM D5185m 180 109
Barium ppm ASTM D5185m 0 0
Molybdenum ppm ASTM D5185m 14 <1
Manganese ppm ASTM D5185m 2 3
Magnesium ppm ASTM D5185m – 117 4
Calcium ppm ASTM D5185m 518 64
Phosphorus ppm ASTM D5185m 994 772
Zinc ppm ASTM D5185m 274 33
Sulfur ppm ASTM D5185m 24063 21963
Visc @ 40°C cSt ASTM D445 328

Report Id: VOLVO0002 [WUSCAR] 06216402 (Generated: 06/24/2024 15:39:35) Rev: 1

Submitted By: DELANO GREGORY





MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 20 Jun 2024 8450 QUARRY ROAD : 24 Jun 2024 MANASSAS, VA US 20110 Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM T: (703)393-7344 F: (703)393-7844



Lab Number : 06216402 Tested Unique Number : 11089266 Diagnosed : 24 Jun 2024 - Sean Felton Test Package : CONST Certificate L2367 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)

Received

Laboratory

Sample No.

: ML0002114

Submitted By: DELANO GREGORY Page 2 of 2