MOB	VOLVO
	OIL ANALYSIS REPORT

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Blythe & Zachary JV CSA - I85 SC Machine Id VOLVO EW180E 3004951 (S/N 180E322030) Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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All component wear rates are normal.

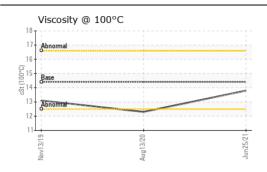
CONTAMINATION

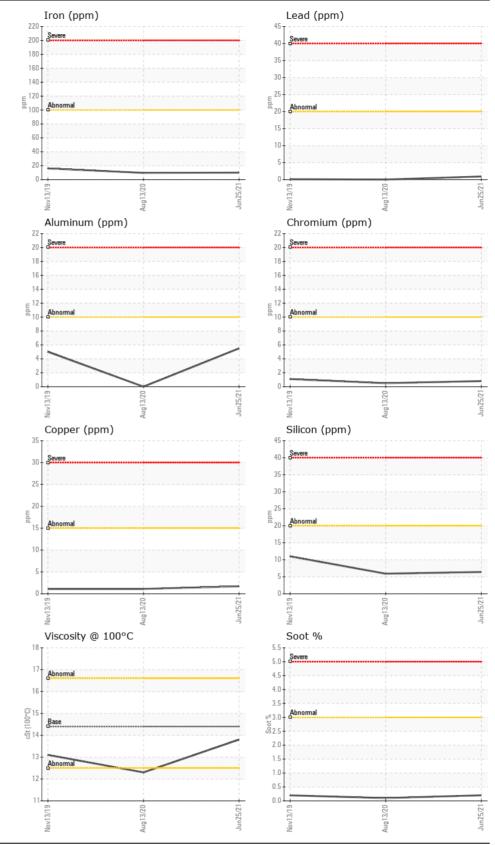
There is no indication of any contamination in the oil.

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

Sample Date Client Info 25 Jun 2021 13 Aug 2020 13 Nov 2018 Machine Age hrs Client Info 0 0 0 Filter Age hrs Client Info 0 0 0 Filter Age hrs Client Info Changed Changed Changed Changed Filter Changed Client Info Changed Changed Changed Changed Changed Sample Status V Client Info Changed Changed Changed Changed Iron ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >10 <1 <1 1 Silver ppm ASTM D5185m >10 6 0 <1 Capper ppm ASTM D5185m >10 1 <1 1 Vanadium ppm ASTM D5185m >20 6 6 11 6 Vanadium ppm ASTM D5185m	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 2055 1479 1003 Gil Age hrs Client Info 0 0 0 Gil Age hrs Client Info Changed Changed Changed Gil Changed Client Info Changed Changed Changed Changed Filter Changed Client Info Changed Changed Changed Changed Sample Status Visual NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >10 <1 0 0 Silver ppm ASTM D5185m >20 <1 0 0 Anuminum ppm ASTM D5185m >20 <1 1 <1 1 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>VCP304876</th><th>VCP286875</th><th>VCP252467</th></t<>	Sample Number		Client Info		VCP304876	VCP286875	VCP252467
Oil Age hrs Client Info 0 0 0 0 Filter Age hrs Client Info Changed	Sample Date		Client Info		25 Jun 2021	13 Aug 2020	13 Nov 2019
Filter Age Oli Changed Ins Client Info O O O O Oil Changed Client Info Changed Chang	Machine Age	hrs	Client Info		2055	1479	1003
Oil Changed Filter Changed Sample StatusClient Info Client InfoChanged 	Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample StatusClient InfoChanged NORMALChanged NORMALChanged NORMALChanged NORMALChanged NORMALIronppmASTM D5185m<>10<1<1<11016ChromiumppmASTM D5185m<>10<1<1<121NickelppmASTM D5185m<>10<1<1<121TitaniumppmASTM D5185m>10<1<1<121SilverppmASTM D5185m>10600001LeadppmASTM D5185m>101<1<1<1<11<	Filter Age	hrs	Client Info		0	0	0
Sample Status NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >100 10 10 16 Chromium ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >10 <1 <1 2 Titanium ppm ASTM D5185m >10 6 0 0 Aluminum ppm ASTM D5185m >10 6 0 0 Lead ppm ASTM D5185m >10 1 <1 <1 <1 Tin ppm ASTM D5185m >10 1 <1 <1 <1 Vanadium ppm ASTM D5185m >10 1 <1 <1 <1 Vanadium ppm ASTM D5185m >20 6 6 11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 1 1	Oil Changed		Client Info		Changed	Changed	Changed
Iron ppm ASTM D5185m >100 10 10 16 Chromium ppm ASTM D5185m >10 <1 <1 1 Nickel ppm ASTM D5185m >10 <1 <1 2 Tittanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >10 6 0 5 Lead ppm ASTM D5185m >10 6 0 <1 0 Vanadium ppm ASTM D5185m >10 1 <1 0 0 Vanadium ppm ASTM D5185m >10 1 <1 0 0 Wante Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NORE NEG NEG Glycol WC Method	Filter Changed		Client Info		Changed	Changed	Changed
Chromium ppm ASTM D5185m >10 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 <1							
Nickel ppm ASTM D5185m >10 <1	-				-		
Titanium ppm ASTM D5185m <1		ppm	ASTM D5185m	>10		<1	
Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >10 6 0 5 Lead ppm ASTM D5185m >20 <1 0 <1 Copper ppm ASTM D5185m >15 2 1 1 Tin ppm ASTM D5185m >10 1 <1 <1 Vanadium ppm ASTM D5185m >10 1 <1 <1 Vanadium ppm ASTM D5185m >10 1 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 6 6 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG NEG Sotd % % ASTM D7624 >20	Nickel	ppm		>10	<1		
Aluminum ppm ASTM D5185m >10 6 0 5 Lead ppm ASTM D5185m >20 <1 0 <1 Copper ppm ASTM D5185m >15 2 1 1 Tin ppm ASTM D5185m >10 1 <1 <1 Vanadium ppm ASTM D5185m >10 1 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 6 6 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG Solt sot % % *ASTM D7824 >30 0.2 0.1 0.2 Nitration Abs/cm< *ASTM D78	Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >20 <1	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >15 2 1 1 Tin ppm ASTM D5185m >10 1 <1 <1 <1 Vanadium ppm ASTM D5185m >10 1 <1 <1 <1 Vanadium ppm ASTM D5185m >10 NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 10 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG S Soot % % *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/cm< *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/cm *ASTM D7624 >20 9.1 7.8 7 Sulfation </th <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>-</th> <th>0</th> <th>5</th>	Aluminum	ppm	ASTM D5185m		-	0	5
Tin ppm ASTM D5185m >10 1 <1	Lead	ppm					<1
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>15	2	1	1
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Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 6 6 11 Potassium ppm ASTM D5185m >20 10 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG NEG Glycol WC Method >0.1 NEG NEG NEG NEG Soot % % *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/.mm< *ASTM D7155 >30 20.9 20.2 21.8 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NORML NORML NORML Appearance scalar *Visual NORML NORML NORML NORML NORML NORML	Vanadium	ppm	ASTM D5185m		<1	0	0
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Potassium ppm ASTM D5185m >20 10 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG Glycol WC Method NEG NEG NEG Sea Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/:m *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/:m *ASTM D7615 >30 20.9 20.2 21.8 Satit scalar *Visual NONE NO	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 10 11 8 Fuel WC Method >6.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.1 NEG NEG NEG Glycol WC Method NEG NEG NEG Sea Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/:m *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/:m *ASTM D7615 >30 20.9 20.2 21.8 Satit scalar *Visual NONE NO	Silicon	nnm	4STM D5185m	\ 20	6	6	11
Fuel WC Method >6.0 <1.0							
Water WC Method >0.1 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/cm *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/tmm *ASTM D7115 >30 20.9 20.2 21.8 Silt scalar *Visual NONE NONE NONE NORME Appearance scalar *Visual NORM NORML NORML NORML Odor scalar *Visual >0.1 <th></th> <th>PPIII</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		PPIII			-		
Glycol WC Method NEG NEG NEG Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/cm *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/cm *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/cm *ASTM D7624 >20 9.1 7.8 7 Sulfation Abs/cm *ASTM D7615 >30 20.9 20.2 21.8 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Sodium ppm							
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Calcium ppm ASTM D5185m 3000 1509 1520 1646 Phosphorus ppm ASTM D5185m 1150 820 723 752 Zinc ppm ASTM D5185m 1350 975 824 829 Sulfur ppm ASTM D5185m 4250 2834 2325 853 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 17.3 20.8	-			150			
Phosphorus ppm ASTM D5185m 1150 820 723 752 Zinc ppm ASTM D5185m 1350 975 824 829 Sulfur ppm ASTM D5185m 4250 2834 2325 853 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 17.3 20.8	Ū.						
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Sulfur ppm ASTM D5185m 4250 2834 2325 853 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 17.3 20.8	-	ppm					
Oxidation Abs/.1mm *ASTM D7414 >25 16.8 17.3 20.8							
		ppm	ASTM D5185m	4250	2834	2325	853
Visc @ 100°C cSt ASTM D445 14.4 13.8 12.3 13.1	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.3	20.8
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	12.3	13.1







BLYTHE CONSTRUCTION INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP304876 Received : 30 Jun 2021 2911 N GRAHAM STREET Lab Number : 05291730 CHARLOTTE, NC Tested : 30 Jun 2021 Diagnosed Unique Number : 9565685 : 30 Jun 2021 - Wes Davis US 28231 Test Package : MOB 1 Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T:

* - 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: (704)373-2960

Contact/Location: Service Manager - BLYCHANC

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