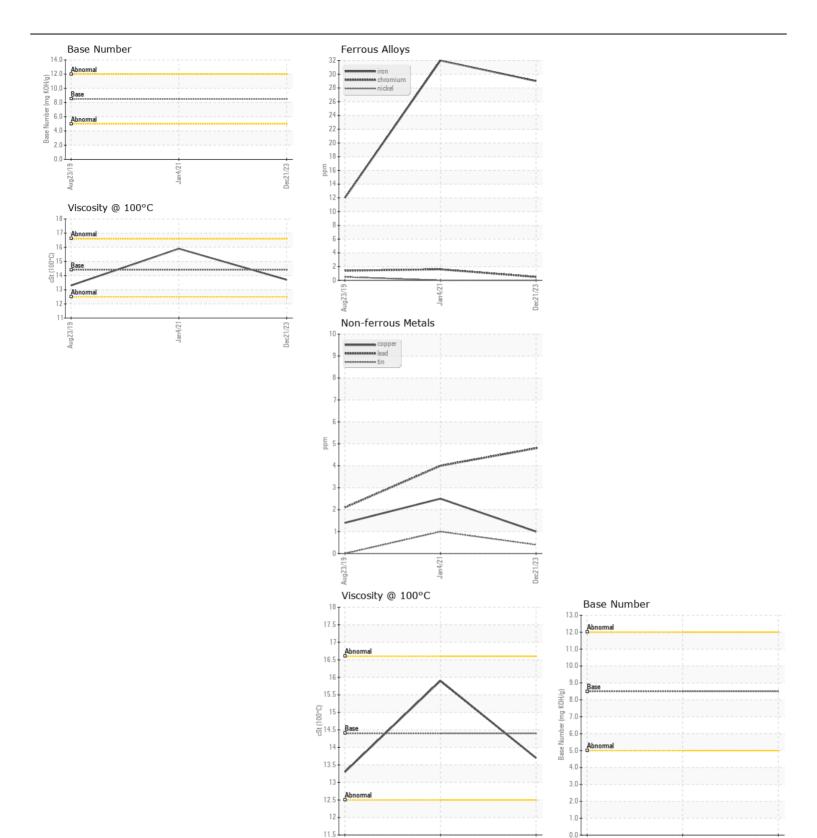


VOLVO L70H 623179

Component Diesel Engine

Peccommendation Pease specify the Sample Number Number	DIESEL ENGINE OIL SAE 40 (GAL)						
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Machines Age Institution Institution Machines Age Institution Machines Age Institution Machines Age Institution Machines Age Institution Inst	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resumple at the next service interval to monitor. Please specily the brand, type, and viscosity of the oil on your next sample. Machine Age hrs Client Info 0 0 0 0 0 0 0 0 0							-	,
Machino Age Inter Client Info 19435 5821 1988 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978								
Filter Age hrs Cilent Info Changed C		Machine Age	hrs	Client Info		10435	5321	
Okl Changed Chlent Info Changed		Oil Age	hrs	Client Info		5114	0	0
Filter Changed Chianged Changed Change		Filter Age	hrs	Client Info		0	0	0
Normal N		Oil Changed		Client Info		Changed	Changed	Changed
Iron		Filter Changed		Client Info		Changed	Changed	Changed
All component wear rates are normal.		Sample Status				NORMAL	NORMAL	NORMAL
Nickel ppm ASTM D5165m 25 0 0 0 0	WEAR	Iron	ppm			29	32	
Nicket Spirit As Not Dolon Spirit As N	All component wear rates are normal.		ppm	ASTM D5185m	>20	<1	2	1
Silver ppm ASTM D5185m >20 0 0 0 0 0 0 0 0 0			ppm		>5	0	0	
Aluminum ppm ASTM D5/85m >40 6 8 3			ppm	ASTM D5185m		_	0	0
Lead ppm ASTM DS185m >40 5 4 2			ppm			0		
Copper						_		
Tin								
Vanadium ppm ASTM D5185m NONE NONE								
White Metal Yellow Metal Scalar Visual Visual NONE NONE NONE NONE NONE NONE NONE NON					>20			
Yellow Metal Scalar Visual NONE NONE NONE NONE NONE					NONE	-	-	
Silicon ppm ASTM D5185m 20 10 10 7								
Potassium Pota				Visuai		·····	INOINL	NONL
Fuel WC Method 0.2 NEG NEG	CONTAMINATION							
Water WC Method 30.0 NEG N	There is no indication of any contamination in the oil.		ppm			_		
Glycol								
Soot %					>0.2			
Nitration Abs/cm 'ASTM D7624 >20 11.7 13.1 8.9		-	21		0			
Sulfation Abs/.tmm "ASTM D7415 >30 28.1 30.3 21.8								
Silt scalar *Visual NONE NONE								
Debris Scalar *Visual NONE NORML								
Sand/Dirt Scalar *Visual NONE NONE NONE NONE NORML N								
Appearance								
Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG								
Emulsified Water scalar *Visual >0.2 NEG NEG NEG								
Sodium ppm ASTM D5185m >216 3 4 2								
Boron ppm ASTM D5185m 250 93 48 23	ELUID CONDITION							
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 10 0 0 0 0 Molybdenum ppm ASTM D5185m 100 5 9 44 Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 450 91 130 495 Calcium ppm ASTM D5185m 3000 2106 2493 1689 Phosphorus ppm ASTM D5185m 1150 995 1075 639 Zinc ppm ASTM D5185m 1350 1317 1312 872 Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5	FLUID CONDITION							
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 100 5 9 44								
Manganese ppm ASTM D5185m 0 <1								
Magnesium ppm ASTM D5185m 450 91 130 495 Calcium ppm ASTM D5185m 3000 2106 2493 1689 Phosphorus ppm ASTM D5185m 1150 995 1075 639 Zinc ppm ASTM D5185m 1350 1317 1312 872 Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5		•			100			
Calcium ppm ASTM D5185m 3000 2106 2493 1689 Phosphorus ppm ASTM D5185m 1150 995 1075 639 Zinc ppm ASTM D5185m 1350 1317 1312 872 Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5					450			
Phosphorus ppm ASTM D5185m 1150 995 1075 639 Zinc ppm ASTM D5185m 1350 1317 1312 872 Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5		-						
Zinc ppm ASTM D5185m 1350 1317 1312 872 Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5								
Sulfur ppm ASTM D5185m 4250 3305 3098 2149 Oxidation Abs/.1mm *ASTM D7414 >25 23.4 27.1 21.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5								
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Base Number (BN) mg KOH/g ASTM D2896 8.5 7.5								
		,	•					







Laboratory Sample No. Lab Number **Unique Number**

: ASC0006220 : 06057664 : 10823613

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

Recieved Diagnosed

: 11 Jan 2024 Diagnostician : Wes Davis

: 11 Jan 2024

Test Package : CONST (Additional Tests: TBN) 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)

ATLAS ORGANICS 2115 EAST CLUB BLVD

DURHAM, NC US 27704

Contact: Service Manager

T:

F: