## ASCENDUM

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Area Ascendum Machinery Machine Id VOLVO L70H 623725 Component

Front Axle

# chinery 523725 ) June 1 June 2 October SAMPLE INFORMATION method limit/base current



VOLVO WB 102 (9 GAL)

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#### Recommendation

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.

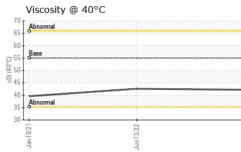
### Fluid Condition

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

Sample Number         Client Info         ASC0001401         VCP301169         VCP301169           Sample Date         Client Info         5924         4225         2064           Oil Age         hrs         Client Info         5924         4225         2064           Oil Age         Lient Info         Changed         Silver         Silver         Silver         Silver         Silver         O         Co         <			methou	iiiiii/base	current	TIIStOLA	TIIStoryz
Machine Age         hrs         Client Info         5924         4225         2064           Oil Age         hrs         Client Info         1699         2161         0           Oil Changed         Client Info         Changed         Changed         Changed         Changed           Sample Status         Image         Image         Current         NORMAL         NORMAL         NORMAL           WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         3         3           Nickel         ppm         ASTM D5185m         >20         0         0         0           Silver         ppm         ASTM D5185m         >50         0         <1         11           Itanium         ppm         ASTM D5185m         >50         0         <1         0           Copper         ppm         ASTM D5185m         >50         0         <1         111         11           Tin         ppm         ASTM D5185m         52           0         0           Cadmium         ppm         ASTM D5185m         52	Sample Number		Client Info		ASC0001401	VCP0000568	VCP301169
Oil Age     hrs     Client Info     1699     2161     0       Oil Changed     Client Info     Changed     Changed     Changed     Changed       Sample Status     rethod     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >500     38     66     63       Chromium     ppm     ASTM D5185m     >20     2     3     3       Nickel     ppm     ASTM D5185m     >20     0     0     <1       Silver     ppm     ASTM D5185m     >20     0     0     <1       Silver     ppm     ASTM D5185m     >30     1     <1     <1       Lead     ppm     ASTM D5185m     >20     0     <1     0       Copper     ppm     ASTM D5185m     >20     0     <1     111       Tin     ppm     ASTM D5185m     >50     0     <1     <1       Antimony     ppm     ASTM D5185m     >50     0     <1     <1       Cadmium     ppm     ASTM D5185m     >50     0     <1     <1       Astm D5185m     >50     0     0     <1     <1       Astm D5185m     52     12     10     <1	Sample Date		Client Info		02 Oct 2023	13 Jun 2022	19 Jan 2021
Oil Changed Sample Status     Client Info     Changed NORMAL     Changed NORMAL     Changed NORMAL     Changed NORMAL     Changed NORMAL     Changed NORMAL     Changed NORMAL       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     2     3     3       Nickel     ppm     ASTM D5185m     >10     0     0     <1       Titanium     ppm     ASTM D5185m     0     0     0     <1       Silver     ppm     ASTM D5185m     >30     1     <1     <1       Lead     ppm     ASTM D5185m     >50     0     <1     0       Copper     ppm     ASTM D5185m     >20     0     <1     <1       Tin     ppm     ASTM D5185m     >20     0     <1     <1       Antimony     ppm     ASTM D5185m     >20     0     <1     <1       Yanadium     ppm     ASTM D5185m     >50       0       Vanadium     ppm     ASTM D5185m     <10     0     <1     1       Antimony     ppm     ASTM D5185m     162     127     127       Barium     ppm     ASTM D5185m     20	Machine Age	hrs	Client Info		5924	4225	2064
Sample Status         Image: Normal status         Normal status         Normal status         Normal status         Normal status           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >500         38         66         63           Chromium         ppm         ASTM D5185m         >20         2         3         3           Nickel         ppm         ASTM D5185m         >10         0         0         <1           Titanium         ppm         ASTM D5185m         >50         0         <1         0         0           Aluminum         ppm         ASTM D5185m         >50         0         <1         11         11           In         ppm         ASTM D5185m         >20         0         <1         <1         11           In         ppm         ASTM D5185m         >20         0         <1         0         0           Cadmium         ppm         ASTM D5185m          <1         0         0         1           ADDITIVES         method         imit/base         current         history1         history2	Oil Age	hrs	Client Info		1699	2161	0
WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >500         38         66         63           Chromium         ppm         ASTM D5185m         >20         2         3         3           Nickel         ppm         ASTM D5185m         0         0         -1         1           Titanium         ppm         ASTM D5185m         >30         1         <1         -1         1           Lead         ppm         ASTM D5185m         >30         1         <1         <1         1         1           Lead         ppm         ASTM D5185m         >50         0         <1         <1         1         1           Lead         ppm         ASTM D5185m         >50         0         <1         <1         0         <	-		Client Info		Changed	Changed	Changed
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         3         3           Nickel         ppm         ASTM D5185m         >10         0         0         <1           Titanium         ppm         ASTM D5185m         0         0         0         <1           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >50         0         <1         0           Copper         ppm         ASTM D5185m         >10         0         <1         <1         0           Copper         ppm         ASTM D5185m         >50         0         <1         <1         11         0         <	Sample Status				NORMAL	NORMAL	NORMAL
Iron         ppm         ASTM D5185m         >500         38         66         63           Chromium         ppm         ASTM D5185m         >20         2         3         3           Nickel         ppm         ASTM D5185m         >10         0         0         <1           Titanium         ppm         ASTM D5185m         0         0         0         <1           Silver         ppm         ASTM D5185m         >30         1         <1         <1         <1           Lead         ppm         ASTM D5185m         >50         0         <1         <1         <1           Tin         ppm         ASTM D5185m         >50          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 <t< th=""><th></th><th></th><th></th><th>11 1. 4</th><th></th><th></th><th></th></t<>				11 1. 4			
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Nickel         ppm         ASTM D5185m         >10         0         0         <11	Iron	ppm	ASTM D5185m	>500	38	66	63
Titanium         ppm         ASTM 05185m         0         0         <1	Chromium	ppm	ASTM D5185m	>20	2	3	3
Silver         ppm         ASTM D5185m         Q         0         0           Aluminum         ppm         ASTM D5185m         >30         1         <1         <1           Lead         ppm         ASTM D5185m         >50         Q         <1         0           Copper         ppm         ASTM D5185m         >120         <1         <1         11           Tin         ppm         ASTM D5185m         >20         Q         <1         <1           Antimony         ppm         ASTM D5185m         >5           0           Vanadium         ppm         ASTM D5185m         >5           0           Cadmium         ppm         ASTM D5185m         <10         0         0         <1           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         162         125         127           Barium         ppm         ASTM D5185m         20         12         10           Calcium         ppm         ASTM D5185m         20         12         10           Calcium	Nickel	ppm	ASTM D5185m	>10	0	0	<1
Atuminum         ppm         ASTM D5185m         >30         1         <1	Titanium	ppm	ASTM D5185m		0	0	<1
Lead         ppm         ASTM D5185m         >50         0         <1	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >120         <1	Aluminum	ppm	ASTM D5185m	>30	1	<1	<1
TinppmASTM D5185m>200<1	Lead	ppm	ASTM D5185m	>50	0	<1	0
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CadmiumppmASTM D5185m00<1	Antimony	ppm	ASTM D5185m	>5			0
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Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG							
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG							
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	·						
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG							
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG							
Odor         scalar         *Visual         NORML         NORML         NORML         NORML         NORML           Emulsified Water         scalar         *Visual         >0.2         NEG         NEG         NEG	-						
Emulsified Water scalar *Visual >0.2 NEG NEG NEG							
				20.L			
	100 1100	Journal	VIOUUI			NEO	neu



## **OIL ANALYSIS REPORT**



	FLUID PROPE		method	limit/base	current	history1	history2
i.	Visc @ 40°C	cSt	ASTM D445	55	42.2	42.6	39.6
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
+	Color				no image	no image	no image
UC(2/23							
	Bottom				no image	no image	no image
	GRAPHS					1	1
120	Iron (ppm)			12	Lead (ppm)		
100	Severe			10	Severe		
80	0				0 -		
ud 60	o de la companya de l			ud 6	Q		
40 20					0		
	0				0		
	Jan 19/21	Jun13/22		0ct2/23	Jan 19/21	Jun 13/22	
-	Aluminum (pp			-	Chromium (p		
7	Severe				0 0 0		
5	1			3			
udd 3	0 Abnormal			ud	Abnormal		
2	0				0		
	0				0		
	Jan 19/21-	Jun13/22 .		0ct2/23 .	Jan 19/21	Jun 13/22 .	
	Copper (ppm)	JL.			Silicon (ppm)		
25	-			12	Smion		
20				8			
15 8 10	Abnormal			ud 6	Abnormal		
5					0		
	0				0		
	Jan 19/21	Jun13/22 -		0ct2/23	Jan 19/21	Jun13/22 -	
	ッ Viscosity @ 40			_	 Additives	٦٣	
7	0 Abnormal	1		450	C		
6				350	sessesses phosphor	2L	
cSt (40°C)	0			E 300	0		
ぷ 4	0			200	0		
	Abnormal			150	************************		
3		3/22 -		001 0ct2/23		3/22 -	
	Jan 19/2	Jun13/22		00	Jan 19/2	Jun13/22	
	WearCheck US				3		
	ASC0001401 05968068	Receive Diagnos		Oct 2023 Oct 2023			TONWOOD IARLOTTE, I
	10674619	Diagnos		athan Heste	r	UL.	US 282
er :		-					
je :	MOBCE ntact Customer S	ander - + +	000 007 400	h		Contact: S	ervice Manag



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Submitted By: CHRISTOPHER CANIPE