**CONSTRUCTION EQUIPMENT** SW-22078 SEG 1 VOLVO L70H 624335 - REAR AXLE



 Sample No:
 VCP422958

 Oil Type:
 VOLVO WB 102

 Job No:
 SW-22078 SEG 1

Boron

VOLVO

VCP422958              Sample Number         VCP422958              Sample Date         25 Jul 2023              Machine Hours         3551              Oil Hours         0              Oil Changed         Not Changd              Sample Status         NORMAL              Visc @ 40°C         cSt					
Sample Number         VCP422958              Sample Date         25 Jul 2023              Machine Hours         3551              Oil Hours         0              Oil Changed         Not Changd              Sample Status         NORMAL              Visc @ 40°C         CSt         49.6              Visc @ 40°C         CSt         49.6              Sodium         ppm         22              Sodium         ppm         1              Potassium         ppm         1              VeARMETALS               Iron         ppm         43              Copper         ppm         1              Molybdenum         ppm<		INFORMATION			
Sample Date         25 Jul 2023              Machine Hours         3551              Oil Hours         0              Oil Changd         Not Changd              Sample Status         Not Changd              Vice @ 40°C         CSt         @ 49.6              Solicon         ppm         22               Solicon         ppm         1               Copper         ppm         41				 -	-
Machine Hours3551Oil Hours00Oil ChangedNot ChangdSample StatusNORMALVor ContontionVor ContontionSolic CONDITIONSoliconppm22Sodiumppm1Potassiumppm1Copperppm43Copperppm1Aluminumppm2Aluminumppm1Nickelppm1Nickelppm1Nickelppm1Nickelppm0Nickelppm1Silverppm1Silverppm1Silverppm1Silverppm100Silverppm1030Silverppm1030 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Oil Hours       0            Oil Changed       Not Changd            Sample Status       NORMAL            Visc @ 40°C       c.St       49.6            Visc @ 40°C       c.St       49.6            CONTAMINATION             Sodium       ppm       22            Sodium       ppm       1            Visc @ 40°C       c.St       49.6            Sodium       ppm       22            Sodium       ppm       1            Visc @ 40°C       c.St       433            Sodium       ppm       443            Copper       ppm       41            Aluminum       ppm       21					
Oil Changed       Not Changed            Sample Status       NORMAL            Visc @ 40°C       CSt       49.6            Visc @ 40°C       CSt       49.6            Visc @ 40°C       CSt       49.6            Soliton       ppm       222            Soliton       ppm       22            Sodium       ppm       1            Verse KETALS             Visc @ 40°C       ppm       43            Potassium       ppm       43            Visc @ 40°C       ppm       <1					
Sample Status         NORMAL             Visc @ 40°C         cSt         49.6              Sodium         ppm         22              Sodium         ppm         1              Visc METALS                Lead         ppm         <1					
Visc @ 40°C         cSt <b>49.6</b> Corrent International State         Contraminational State         Contraminational State         Contraminational State         Contraminational State           Silicon         ppm         222              Sodium         ppm         22              Sodium         ppm         22              Visconal State         ppm         22              Visconal State         ppm         22              Visconal State         ppm         443              Copper         ppm         443              Lead         ppm         41              Aluminum         ppm         21              Molybdenum         ppm         1              Nickel         ppm         1              Magnese	-		_		
OIL CONDITION           Visc @ 40°C         cSt <b>49.6</b> CONTAMINATION               Soliton         ppm         22              Soliton         ppm         22              Soliton         ppm         1              Potassium         ppm         1              Viscon         WEAR METALS              Viscon         ppm         43              Copper         ppm         44              Lead         ppm         <1              Aluminum         ppm         <1              Molybdenum         ppm         <1              Molybdenum         ppm         0              Nickel         ppm         0	Sample Status		NORMAL	 	
Visc @ 40°C         cSt         49.6              CONTAMINATION         Contramination         ppm         22              Sodium         ppm         22               Potassium         ppm         1               Visition         ppm         43               Copper         ppm         44               Lead         ppm         <1               Aluminum         ppm         <1              Aluminum         ppm         <1              Molybelnum         ppm         <1              Mickel         ppm         <1              Molybelnum         ppm         <1              Molybelnum         ppm         <1         <	VOLVO				
Visition         visition           Silicon         ppm         22             Sodium         ppm         2             Potassium         ppm         1             Visition         ppm         43              Copper         ppm         4              Lead         ppm         <1	V OIL CON	DITION			
Visition         visition           Silicon         ppm         22             Sodium         ppm         2             Potassium         ppm         1             Visition         ppm         43              Copper         ppm         4              Lead         ppm         <1	Visc @ 40°C	cSt	49.6	 	
CONTAMINATION           Silicon         ppm         22              Sodium         ppm         2              Potassium         ppm         1              Potassium         ppm         1              VEAR METALS               Iron         ppm         43              Copper         ppm         44              Lead         ppm         <1					
Silicon         ppm         22              Sodium         ppm         1              Potassium         ppm         1              Potassium         ppm         1              WEAR METALS               Iron         ppm         43              Copper         ppm         44              Lead         ppm         <1	VOLVO				
Sodium         ppm         2              Potassium         ppm         1              WEAR METALS               Iron         ppm         43              Copper         ppm         4              Lead         ppm         <1		IINATIUN		 <u>.</u>	
Potassium         ppm         1              WEAR METALS               Iron         ppm         443              Copper         ppm         44              Lead         ppm         <1              Lead         ppm         <1              Aluminum         ppm         <1              Aluminum         ppm         2              Aluminum         ppm         2              Molybdenum         ppm         7              Nickel         ppm         0              Silver         ppm         0              Vanadium         ppm         3064              Magnesium         ppm         72		ppm		 	
WEAR METALS         Iron       ppm       443            Copper       ppm       44            Lead       ppm       <1	Sodium	ppm		 	
WEAR METALS           Iron         ppm         43             Copper         ppm         4             Lead         ppm         <1	Potassium	ppm	∎1	 	
WEAR METALS           Iron         ppm         43             Copper         ppm         4             Lead         ppm         <1					
Iron         ppm         443              Copper         ppm         44              Lead         ppm         <1		IFTAI S			
Copper         ppm         I             Lead         ppm         <1				 <u>.</u>	-
Lead       ppm       <1					
Tin         pm         <1             Aluminum         ppm         2              Chromium         ppm         <1					
Aluminum       ppm       2            Chromium       ppm       <10					
Chromium         ppm         I              Molybdenum         ppm         T             Nickel         ppm         0					
Molybdenum         ppm         7             Nickel         ppm         0              Titanium         ppm         1              Silver         ppm         0              Manganese         ppm         1              Vanadium         ppm         <1					
Nickel         ppm         0              Titanium         ppm         <1					
Titanium         ppm         <1              Silver         ppm         0              Manganese         ppm         1              Vanadium         ppm         <1					
Silver         ppm         0              Manganese         ppm         1              Vanadium         ppm         <1					
Manganese         ppm         1             Vanadium         ppm         <1              Addium         ppm         <1               Addium         ppm         <1               Addium         ppm         3064               Calcium         ppm         72               Magnesium         ppm         72               Zinc         ppm         1280               Phosphorus         ppm         1030					
Vanadium         ppm         <1              ADDITIVES                Calcium         ppm         3064              Magnesium         ppm         72              Zinc         ppm         1280              Phosphorus         ppm         1030			-		
ADDITIVES         Sold         Sold	-		_		
ADDITIVES           Calcium         ppm         3064              Magnesium         ppm         72              Zinc         ppm         1280              Phosphorus         ppm         1030	vanadium	ppm	<1	 	
ADDITIVES           Calcium         ppm         3064              Magnesium         ppm         72              Zinc         ppm         1280              Phosphorus         ppm         1030	VOLVO			 	
Magnesium         ppm         72             Zinc         ppm         1280              Phosphorus         ppm         1030	ADDITIV	ES			
Magnesium         ppm         72              Zinc         ppm         1280               Phosphorus         ppm         1030	Calcium	ppm	3064	 	
Zinc         ppm         1280              Phosphorus         ppm         1030	Magnesium		72	 	
Phosphorus ppm <b>1030</b>	2		1280	 	



ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: JUSTIN BENCH JUSTIN.BENCH@ARNOLDMACHINERY.COM T: (801)698-5639 F: (801)975-9434

## Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. No cross contamination detected. The condition of the oil is acceptable for the time in service.

Depot:	VOLVO8770		
Unique No:	10586853		
Signed:	Don Baldridge		
Report Date:	04 Aug 2023		

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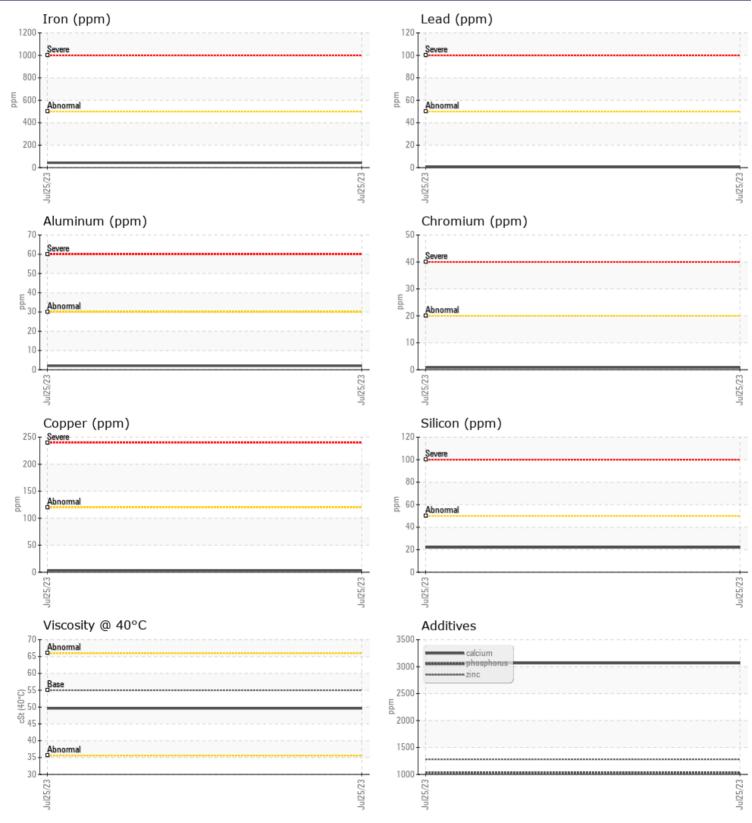
ppm

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO8770 [WUSCAR] 05914939 (Generated: 08/08/2023 09:48:44) Rev: 1

Contact/Location: JUSTIN BENCH - VOLVO8770