CONSTRUCTION EQUIPMENT IMPORT AUTO VOLVO EC220E 310953 - REAR RIGHT FINAL DRIVE

Sample No:VCP437842Oil Type:VOLVO PREMIUM GEAR OIL 85W-140 GL-5Job No:IMPORT AUTO

## SAMPLE INFORMATION

VOLVO

Sample Number         VCP437842         VCP334695             Sample Date         26 Feb 2024         20 Jul 2021             Machine Hours         3107         1253             Oil Hours         0         1253             Oil Changed         Not Changd         Changed             Sample Status         NORMAL         ABNORMAL             Visc @ 40°C         cSt         291         186             Visc @ 40°C         cSt         291         186             Vater         %         NEG         NEG             Sodium         ppm         0         2             Potassium         ppm         0         4             Copper         ppm         0         2             Lead         ppm         0         1             Aluminum         ppm         3         17             Nolo			<u> </u>			
Machine Hours       3107       1253           Oil Hours       0       1253           Oil Changed       Not Changd       Changed           Sample Status       NORMAL       ABNORMAL           Visc @ 40°C       cSt       291       186           Solicon       ppm       0       2            Solium       ppm       0       117            Copper       ppm       0       11	Sample Number		VCP437842	VCP334695		
Oil Hours01253Oil ChangedNot ChangedSample StatusNORMALABNORMALVisco0IL CONDITIONVisco40°CcSt291186Visco0IL CONDITIONVisco40°CcSt291186Visco0117Soliunppm02Soliumppm044ViscoViscoViscoViscoVisco1109Viscoppm02Copperppm02Leadppm01Aluminumppm3117Nickelppm03Nickelppm03Nickelppm00Silverppm00Silverppm00Maganeseppm00Silverppm00Silverppm00Silverppm00 <td>Sample Date</td> <td></td> <td>26 Feb 2024</td> <td>20 Jul 2021</td> <td></td> <td></td>	Sample Date		26 Feb 2024	20 Jul 2021		
Oil ChangedNot ChangdChangedSample StatusNORMALABNORMALOil CONDITIONIII CONDITIONIIIIVisc @ 40°CcSt291186Visc @ 40°CcSt291186Visc @ 10°Ciii Contaminationiii iii ContaminationVater%NEGNEGSiliconppm02Sodiumppm02Potassiumppm02VERNETALSII09Ironppm01Copperppm01Iadppm01Iadppm01Chromiumppm2-1Nickelppm03Nickelppm03Nickelppm03Silverppm03Silverppm00Silverppm00Silverppm1Silverppm00Silverppm11 </td <td>Machine Hours</td> <td></td> <td>3107</td> <td>1253</td> <td></td> <td></td>	Machine Hours		3107	1253		
Sample StatusNORMALABNORMALOIL CONDITIONVisc @ 40°CcSt291186CONTAMINATIONWater%NEGNEGSodiumppm0.02Sodiumppm0.02Potassiumppm0.02VERNETALSVERNETALSIronppm0.01Copperppm0.01Leadppm0.11Ininppm0.11Aluminumppm0.11Nickelppm0.11Ininppm0.11Silverppm0.11Silverppm0.11Molybdenumppm0.11Silverppm0.03Silverppm0.11Silverppm0.11Silverppm0.11Silverppm0.11Silverppm0.11Silverppm0.11<	Oil Hours		0	1253		
Visc @ 40°C         cSt         291         186             CONTAMINATION         Vater         %         NEG         NEG             Silicon         ppm         33         117             Solium         ppm         0         22             Vater         %         NEG         NEG             Solium         ppm         0         22             Verse         Werse         NEG         NEG             Visc @ 40°C         ppm         0         22             Solium         ppm         0         2             Verse         Ppm         0         2             Verse         Ppm         0         110             Lead         ppm         33         17             Aluminum         ppm         3         176             Nickel         ppm         0         3 </td <td>Oil Changed</td> <td></td> <td>Not Changd</td> <td>Changed</td> <td></td> <td></td>	Oil Changed		Not Changd	Changed		
OIL CONDITION           Vise @ 40°C         cSt         291         186             CONTAMINATION         Vater         %         NEG         NEG             Solicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         2             Version         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         1109             Copper         ppm         0         1             Lead         ppm         3         17             Aluminum         ppm         4         16             Molybdenum	Sample Status		NORMAL	ABNORMAL		
OIL CONDITION           Vise @ 40°C         cSt         291         186             CONTAMINATION         Vater         %         NEG         NEG             Solicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         2             Version         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         2             Votico         Ppm         0         1109             Copper         ppm         0         1             Lead         ppm         3         17             Aluminum         ppm         4         16             Molybdenum						
Visc @ 40°C         cSt         291         186             CONTAMINATION         Vater         %         NEG         NEG             Silicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         44             VERN METALS         VERN METALS         Vern             Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1109             Aluminum         ppm         3         117             Aluminum         ppm         3         117             Kell         ppm         3         117             Neg         sil         3         17             Kell         ppm         2         <1						
CONTAMINATION         NEG         NEG             Silicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         44             Version         Version         Version         Version             Version         ppm         0         2             Version         ppm         0         44             Version         ppm         0         2             Version         ppm         0         1109             Version         ppm         0         2             Lead         ppm         0         11             Aluminum         ppm         3         17             Molybdenum         ppm         2         <1             Nickel         ppm         0         3					_	
CONTAMINATION           Water         %         NEG         NEG             Silicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         44             WEAR METALS         VEAR METALS              Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1109             Copper         ppm         0         1             Lead         ppm         3         17             Aluminum         ppm         3         17             Molybdenum         ppm         3         17             Nickel         ppm         3        1             Nickel         ppm         0         3	Visc @ 40°C	cSt	291	186		
CONTAMINATION           Water         %         NEG         NEG             Silicon         ppm         33         117             Sodium         ppm         0         2             Potassium         ppm         0         44             WEAR METALS         VEAR METALS              Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1109             Copper         ppm         0         1             Lead         ppm         3         17             Aluminum         ppm         3         17             Molybdenum         ppm         3         17             Nickel         ppm         4         16             Nickel         ppm         0         0         -	VOLVO					
Silicon       ppm       33       117           Sodium       ppm       0       2           Potassium       ppm       0       4           WEAR METALS             Vear       ppm       0       109           Copper       ppm       0       12           Lead       ppm       0       1           Tin       ppm       <1	CONTAN	MINATION				
Sodium         ppm         0         2             Potassium         ppm         0         4             WEAR METALS               Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1109             Aluminum         ppm         44         109             Aluminum         ppm         0         11             Aluminum         ppm         3         17             Molybdenum         ppm         2         <1             Nickel         ppm         0         3              Nickel         ppm         0         0         3             Silver         ppm         0         0         0             Manganese         ppm         4         13	Water	%	NEG	NEG		
Sodium         ppm         0         2             Potassium         ppm         0         4             WEAR METALS               Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1109             Aluminum         ppm         3         17             Aluminum         ppm         3         17             Nickel         ppm         2         <11             Nickel         ppm         3         17             Nickel         ppm         3        1             Nickel         ppm         3              Silver         ppm         0         0         0             Manganese         ppm         4         13 <td>Silicon</td> <td>ppm</td> <td>33</td> <td><b>1</b>17</td> <td></td> <td></td>	Silicon	ppm	33	<b>1</b> 17		
Potassium         pm         0         4             WEAR METALS                Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         11             Aluminum         ppm         <1              Aluminum         ppm         3         17             Chromium         ppm         4         16             Nickel         ppm         0         3             Nickel         ppm         <1              Silver         ppm         0         0              Manganese         ppm         4         13	Sodium		0			
WEAR METALS           Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1             Tin         ppm         <1	Potassium		0			
WEAR METALS           Iron         ppm         444         1109             Copper         ppm         0         2             Lead         ppm         0         1             Tin         ppm         <1						
Iron       ppm       444       1109           Copper       ppm       0       2           Lead       ppm       0       1           Tin       ppm       <1	WEAD N	AFTAIS				
Copper         ppm         0         2             Lead         ppm         0         1             Tin         ppm         <1	<u> </u>			1100		
Lead         ppm         0         1             Tin         ppm         <1						
Tin         ppm         <1             Aluminum         ppm         3         17             Chromium         ppm         4         16             Molybdenum         ppm         2         <1				_		
Aluminum       ppm       3       17           Chromium       ppm       4       16           Molybdenum       ppm       2       <1						
Chromium         ppm         4         16             Molybdenum         ppm         2         <1						
Molybdenum         ppm         2         <1             Nickel         ppm         0         3             Titanium         ppm         <1         1             Silver         ppm         0         0             Manganese         ppm         4         13						
Nickel         ppm         0         3             Titanium         ppm         <1			_	_		
Titanium         ppm         <1             Silver         ppm         0         0             Manganese         ppm         4         13	-					
Silver         ppm         0             Manganese         ppm         4         13						
Manganese ppm <b>4 1</b> 3		ppm				
		ppm				
Vanadium ppm 0 <1		ppm				
	Vanadium	ppm	0	<1		
VOLVO						



	VE2			
Calcium	ppm	93	69	 
Magnesium	ppm	34	<1	 
Zinc	ppm	69	11	 
Phosphorus	ppm	<b>1020</b>	267	 
Barium	ppm	0	0	 
Boron	ppm	<b>119</b>	10	 



## ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

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

 Depot:
 VOLVO0093

 Unique No:
 10996166

 Signed:
 Wes Davis

 Report Date:
 26 Apr 2024

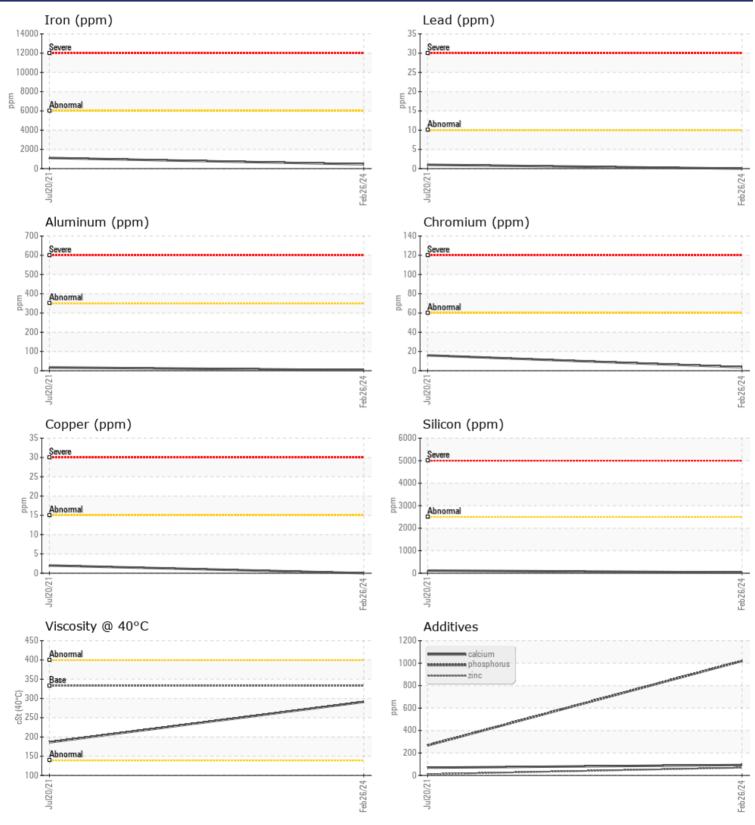
 Contact/Location: KENNY HANEY - VOLVO0093

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO0093 [WUSCAR] 06160743 (Generated: 04/26/2024 15:32:37) Rev: 1

Contact/Location: KENNY HANEY - VOLVO0093