

# **CONSTRUCTION EQUIPMENT** VOLVO A45G 352004 - BOGIE/CENTER AXLE



## Sample No: VCE164856

Oil Type:

VOLVO PREMIUM GEAR OIL 80W-90 GL-5

#### Job No:

Sample Number     VCE164856         Sample Date     27 Jul 2023          Machine Hours     5387          Oil Hours     14          Oil Changed     N/A          Sample Status     NORMAL          Visc @ 40°C     c St     142          Solium     ppm     7          Solium     ppm     <1          Copper					
Sample Date   27 Jul 2023        Machine Hours   5387        Oil Hours   14        Oil Changed   N/A        Sample Status   NORMAL        Visc @ 40°C   CSt   142        Sodium   ppm   7        Sodium   ppm   <1		E INFORMATION	N		
Sample Date   27 Jul 2023        Machine Hours   5387        Oil Hours   14        Oil Changed   N/A        Sample Status   NORMAL        Visc @ 40°C   CSt   142        Sodium   ppm   7        Sodium   ppm   <1				 	
Machine Hours5387Oil Hours14Oil ChangedN/ASample StatusNORMALNORMALVisc @ 40°CcSt142CONTAMINATIONSiliconppm112Sodiumppm<1				 	
Oil Changed   N/A        Sample Status   NORMAL        Oil CONDITION         Vise @ 40°C   cSt   142        CONTAMINATION         Silicon   ppm   7        Sodium   ppm   <1				 	
Sample Status     NORMAL          OIL CONDITION           Visc @ 40°C     cSt     142          CONTAMINATION           Sodium     ppm     142          Sodium     ppm           Potassium     ppm           Visc @ 40°C     cSt     180           Sodium     ppm            Potassium     ppm            Lead     ppm     0            Aluminum     ppm     0           Nokybdenum     ppm     0	Oil Hours		14	 	
Visc @ 40°C     cSt     142         CONTAMINATION        Silicon     ppm     7         Sodium     ppm         Sodium     ppm        Verassium     ppm        Iron     ppm        Verassium     ppm        Iron     ppm        Iron     ppm        Iron	Oil Changed		N/A	 	
Visc @ 40°C     cSt     142          CONTAMINATION           Silicon     ppm     7          Sodium     ppm     <1	Sample Status		NORMAL	 	
Visc @ 40°C     cSt     142          CUTTAMINATION           Solium     ppm     7          Solium     ppm     <1					
Silicon     ppm     7         Sodium     ppm     <1	OIL CON	IDITION			
CONTAMINATION       Silicon     ppm     7          Sodium     ppm     <1	Visc @ 40°C	cSt	142	 	
CONTAMINATION       Silicon     ppm     7          Sodium     ppm     <1					
Silicon     ppm     7          Sodium     ppm     <1	VOLVO				
Sodium     ppm     <1         Potassium     ppm     <1					
Potassium     ppm     <1           WEAR METALS            Ion     ppm     8           Copper     ppm     <1           Lead     ppm     0           Aluminum     ppm     <10           Aluminum     ppm     <1           Aluminum     ppm     <1           Aluminum     ppm     <1           Molybdenum     ppm     0           Nickel     ppm     0           Magnese     ppm     0           Magnesium					
WEAR METALS       Iron     ppm     8          Copper     ppm     C          Lead     ppm     0          Lead     ppm     0          Aluminum     ppm     C          Aluminum     ppm     C          Molybdenum     ppm     C          Nickel     ppm     0          Nickel     ppm     0          Silver     ppm     0          Vanadium     ppm     0          Vanadium     ppm     C1          Columinum     ppm     0          Kopm     0 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
WEAR METALS       Iron     ppm     8          Copper     ppm     <1	Potassium	ppm	<b>□</b> <1	 	
WEAR METALS       Iron     ppm     88          Copper     ppm     <1	VOLVO				
Copper     ppm     <1         Lead     ppm     0          Tin     ppm     0          Aluminum     ppm     <1	WEAR I	METALS			
Lead   ppm   0        Tin   ppm   0        Aluminum   ppm   <1	Iron	ppm	8	 	
Tin     ppm     0          Aluminum     ppm     <1	Copper	ppm		 	
Aluminum   ppm   <1	Lead	ppm	0	 	
Chromium     ppm     <1          Molybdenum     ppm     0          Nickel     ppm     0          Titanium     ppm     0          Silver     ppm     0          Manganese     ppm     0          Vanadium     ppm     0          Calcium     ppm     13          Magnesium     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0	Tin	ppm	0	 	
Molybdenum     ppm     0         Nickel     ppm     0          Titanium     ppm     0          Silver     ppm     0          Manganese     ppm     0          Vanadium     ppm     0          Vanadium     ppm     0          Calcium     ppm     13          Magnesium     ppm     <1	Aluminum	ppm	<b>■</b> <1	 	
Nickel     ppm     0          Titanium     ppm     0          Silver     ppm     0          Manganese     ppm     0          Vanadium     ppm     0          Vanadium     ppm     0          ADDITIVES           Calcium     ppm     13          Magnesium     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0		ppm	_	 	
Titanium   ppm   0       Silver   ppm   0       Manganese   ppm   0        Vanadium   ppm   13        Magnesium   ppm   <1        Zinc   ppm   24        Phosphorus   ppm   2112        Barium   ppm   0	-	ppm		 	
Silver     ppm     0         Manganese     ppm     0          Vanadium     ppm     0          Vanadium     ppm     0          ADDITIVES           Calcium     ppm     13          Magnesium     ppm     <1          Zinc     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0		ppm		 	
Manganese     ppm     0         Vanadium     ppm     0          ADDITIVES           Calcium     ppm     13          Magnesium     ppm     14          Zinc     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0		ppm		 	
Vanadium     ppm     0          ADDITIVES           Calcium     ppm     13          Magnesium     ppm     <1          Zinc     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0		ppm	-	 	
ADDITIVES         Calcium     ppm     13         Magnesium     ppm     <1					
ADDITIVES       Calcium     ppm     13         Magnesium     ppm     <1	Vanadium	ppm	0	 	
ADDITIVES       Calcium     ppm     13         Magnesium     ppm     <1					 
Magnesium     ppm     <1          Zinc     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0	ADDITI	VES			
Zinc     ppm     24          Phosphorus     ppm     2112          Barium     ppm     0	Calcium	ppm	13	 	
Phosphorus     ppm     2112          Barium     ppm     0	Magnesium	ppm	<b></b> <1	 	
Barium ppm <b>0</b>	Zinc	ppm	24	 	
	Phosphorus	ppm	2112	 	
Boron ppm <b>188</b>	Barium	ppm	0	 	
	Boron	ppm	<b>188</b>	 	



#### THE GW VAN KEPPEL CO MAIN

801 NORTH 9TH STREET CANSAS CITY, KS JS 66101 Contact: RUSTY COONS coons@vankeppel.com : (913)233-3881 : (913)281-4815

## 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.

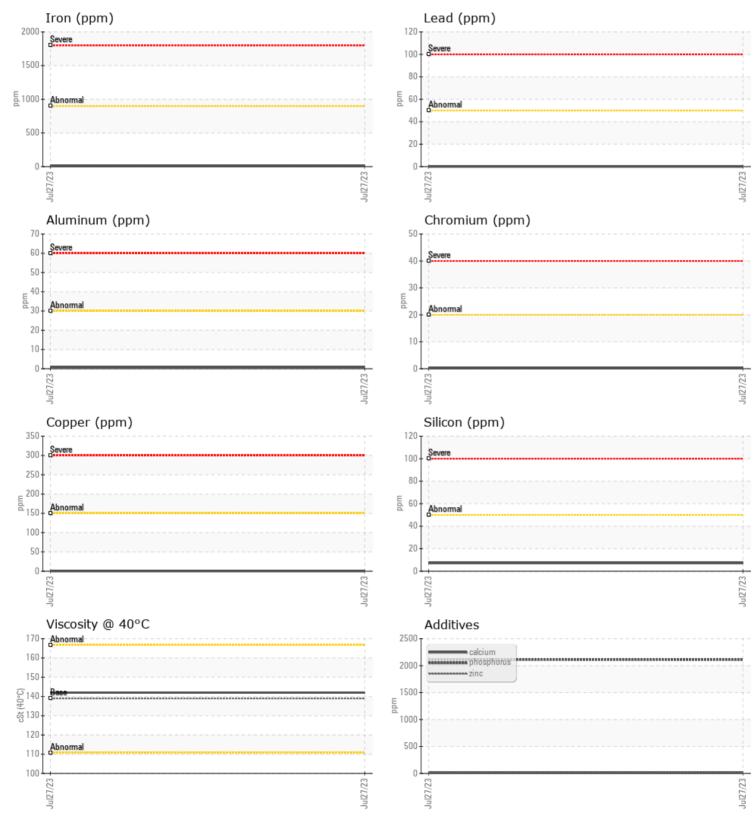
Depot:	VOLVO0111	
Unique No:	10576257	
Signed:	Wes Davis	
Report Date:	31 Jul 2023	

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO0111 [WUSCAR] 05909605 (Generated: 07/31/2023 10:21:10) Rev: 1

Contact/Location: RUSTY COONS - VOLVO0111