

## CONSTRUCTION EQUIPMENT VOLVO A40F 12311 - REAR AXLE



 Sample No:
 VCP260919

 Oil Type:
 SAE 75W90

#### Job No:

SAMPLE INFORMATION         VCP260919         III         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					
Sample Date       22 Nov 2019            Machine Hours       5992            Oil Hours       1873            Sample Status       ABNORMAL            Sample Status       ABNORMAL            Visc @ 40°C       cSt       61.2            Visc @ 40°C       cSt       61.2            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       14            Sodium       ppm       12            Coper       ppm       3            Copper       ppm       0            Molydenum	SAMPLE	INFORMATIO	N		
Sample Date       22 Nov 2019            Machine Hours       5992            Oil Hours       1873            Sample Status       ABNORMAL            Sample Status       ABNORMAL            Visc @ 40°C       cSt       61.2            Visc @ 40°C       cSt       61.2            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       12            Sodium       ppm       14            Sodium       ppm       12            Coper       ppm       3            Copper       ppm       0            Molydenum				 	
Machine Hours       5992            Oil Hours       1873            Sample Status       Not Changd            Sample Status       ABNORMAL            Oil Hours             Oil CONDITION             Vocco       CST       61.2            Sodium       ppm       12            Sodium       ppm       2            Vocco       WEAR METALS            Vocco       WEAR METALS            Iron       ppm       278            Iron       ppm       3            Iron       ppm       0            Iron       ppm       0            Iron       ppm       1 <td>•</td> <td></td> <td></td> <td> </td> <td></td>	•			 	
Oil Changed       Not Changd            Sample Status       ABNORMAL            Visc @ 40°C       cSt       61.2            Visc @ 40°C       cSt       61.2            Silicon       ppm       12            Sodium       ppm       2            Potassium       ppm       2            Visc @ 40°C       visc @ 40°C             Silicon       ppm       12             Sodium       ppm       2             Visc @ 40°C       Visc @ 40°C       Visc @ 40°C             Sodium       ppm       12              Iron       ppm       0              Keak METALS <td></td> <td></td> <td>5992</td> <td> </td> <td></td>			5992	 	
Sample Status         ABNORMAL              Visc @ 40°C         cSt         61.2              Sodium         ppm         12              Sodium         ppm         3              VEAR METALS               Iron         ppm         0              Lead         ppm         0              Aluminum         ppm         5              Molybdenum         ppm         1	Oil Hours		1873	 	
Sample Status         ABNORMAL              Visc @ 40°C         cSt         61.2              Sodium         ppm         12              Sodium         ppm         3              VEAR METALS               Iron         ppm         0              Lead         ppm         0              Aluminum         ppm         5              Molybdenum         ppm         1	Oil Changed		Not Changd	 	
Visc @ 40°C         cSt         61.2              CONTAMINATION                Sodium         ppm         12              Sodium         ppm         2              Sodium         ppm         2              Voice         Visc @ 40°C         cSt              Sodium         ppm         12              Sodium         ppm         2              Voice         Visc @ 40°C         x              Sodium         ppm         2              Sodium         ppm         0              Copper         ppm         0              Lead         ppm         12              Molybdenum         ppm         5	-		_	 	
OIL CONDITION           Visc @ 40°C         cSt         61.2              Solium         ppm         12              Solium         ppm         2              Potassium         ppm         4              Voice         WEAR METALS              Iron         ppm         0              Copper         ppm         0              Lead         ppm         0              Aluminum         ppm         12              Molybdenum         ppm         12              Nickel         ppm         6              Nickel         ppm         24              Vanadium         ppm         1              Vanadium         ppm         54         -					
Visc @ 40°C       cSt       61.2            CONTAMINATION       E             Sodium       ppm       12             Sodium       ppm       2             Sodium       ppm       4             Voto       WEAR METALS       Version            Iron       ppm       278            Lead       ppm       0            Aluminum       ppm       4            Aluminum       ppm       4            Nickel       ppm       5            Molybdenum       ppm       6            Silver       ppm       24            Magnese       ppm       24            Votoo       ADITIVES		NITION			
CONTAMINATION           Silicon         ppm         12             Sodium         ppm         2             Potassium         ppm         4             Potassium         ppm         4             WEAR METALS              Iron         ppm         3             Copper         ppm         0             Lead         ppm         0             Aluminum         ppm         4              Kickel         ppm         12              Molybdenum         ppm         12              Nickel         ppm         2              Silver         ppm         41              Manganese         ppm         24              Calcium         ppm         54 <td></td> <td></td> <td>61.2</td> <td></td> <td></td>			61.2		
CONTAMINATION           Silicon         ppm         12              Sodium         ppm         2              Potassium         ppm         4              Votor         V         V              Votor         V         V              Votor         V         V              Votor         V               Votor         V               Votor         P         3              Copper         ppm         0              Lead         ppm         0               Aluminum         ppm         4               Molybdenum         ppm         12              Nickel         ppm	VISC @ 40 C	CSL	<u> </u>	 	
Silicon       ppm       12            Sodium       ppm       2            Potassium       ppm       4            WEAR METALS             Version       ppm       278            Copper       ppm       3            Lead       ppm       0            Aluminum       ppm       0            Aluminum       ppm       12            Molybdenum       ppm       6            Silver       ppm       21            Silver       ppm       24            Vanadium       ppm       24            Calcium       ppm       54            Abuntive       ppm       17	VOLVO				
Sodium         ppm         2              Potassium         ppm         4              Potassium         ppm         4              WEAR METALS               Iron         ppm         278              Copper         ppm         3              Lead         ppm         0              Aluminum         ppm         4              Aluminum         ppm         5              Molybdenum         ppm         12              Molybdenum         ppm         6              Silver         ppm         1              Manganese         ppm         24              Calcium         ppm         54	V CONTAM	IINATION			
Sodium         ppm         2              Potassium         ppm         4              Potassium         ppm         4              WEAR METALS               Iron         ppm         278              Copper         ppm         3              Lead         ppm         0              Aluminum         ppm         4              Aluminum         ppm         5              Molybdenum         ppm         12              Molybdenum         ppm         6              Silver         ppm         1              Manganese         ppm         24              Calcium         ppm         54	Silicon	maa	12	 	
Potassium         ppm         4              WEAR METALS               Iron         ppm         278              Copper         ppm         3              Lead         ppm         0              Aluminum         ppm         4              Aluminum         ppm         5              Molybdenum         ppm         12              Molybdenum         ppm         6              Silver         ppm         64              Manganese         ppm         24              Vanadium         ppm         54              Calcium         ppm         17              Magnesium         ppm         1436				 	
WEAR METALS           Iron         ppm         278              Copper         ppm         3              Lead         ppm         0              Aluminum         ppm         0              Aluminum         ppm         4              Chromium         ppm         12              Molybdenum         ppm         6              Nickel         ppm         6              Silver         ppm         24              Vanadium         ppm         <1	Potassium			 	
WEAR METALS           Iron         ppm         278              Copper         ppm         3              Lead         ppm         0              Aluminum         ppm         4              Aluminum         ppm         5              Molybdenum         ppm         12              Nickel         ppm         6              Silver         ppm         24              Vanadium         ppm         <1		I. I.			
Copper       ppm       3           Lead       ppm       0           Tin       ppm       0           Aluminum       ppm       4           Aluminum       ppm       5           Chromium       ppm       12           Molybdenum       ppm       6           Nickel       ppm       41           Silver       ppm       24           Manganese       ppm       24           Vanadium       ppm       <1	WEAR M	IETALS			
Copper         ppm         3              Lead         ppm         0              Tin         ppm         0              Aluminum         ppm         4              Chromium         ppm         5              Molybdenum         ppm         12              Nickel         ppm         6              Silver         ppm         <1	Iron	ppm	278	 	
Tin       ppm       0            Aluminum       ppm       4            Chromium       ppm       5            Molybdenum       ppm       12            Nickel       ppm       2            Titanium       ppm       6            Manganese       ppm       24            Vanadium       ppm       <1	Copper		3	 	
Tin       ppm       0            Aluminum       ppm       4            Chromium       ppm       5            Molybdenum       ppm       12            Nickel       ppm       2            Titanium       ppm       6            Manganese       ppm       24            Vanadium       ppm       <1	Lead	ppm	0	 	
Chromium       ppm       5            Molybdenum       ppm       12            Nickel       ppm       2            Titanium       ppm       6            Silver       ppm       <1	Tin	ppm		 	
Molybdenum         ppm         12              Nickel         ppm         2              Titanium         ppm         6              Silver         ppm         <1	Aluminum	ppm	4	 	
Nickel         ppm         2              Titanium         ppm         6              Silver         ppm         <1              Manganese         ppm         24              Vanadium         ppm         <1              Vanadium         ppm         <1              ADDITIVES                Calcium         ppm         54              Magnesium         ppm         2              Zinc         ppm         1436              Barium         ppm         <1	Chromium	ppm	5	 	
Titanium       ppm       6           Silver       ppm       <1	Molybdenum	ppm	12	 	
Silver         ppm         <1             Manganese         ppm         24              Vanadium         ppm         <1              Vanadium         ppm         <1              ADDITIVES                Calcium         ppm         54              Magnesium         ppm         22              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1	Nickel	ppm	2	 	
Manganese         ppm         24             Vanadium         ppm         <1	Titanium	ppm	6	 	
Vanadium         ppm         <1             ADDITIVES               Calcium         ppm         54              Magnesium         ppm         2              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1	Silver	ppm	<1	 	
Vanadium         ppm         <1              ADDITIVES         ADDITIVES               Calcium         ppm         54               Magnesium         ppm         2               Zinc         ppm         17               Phosphorus         ppm         1436               Barium         ppm         <1	Manganese		24	 	
ADDITIVES           Calcium         ppm         54              Magnesium         ppm         2              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1	Vanadium	ppm	<1	 	
ADDITIVES           Calcium         ppm         54              Magnesium         ppm         2              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1					
Magnesium         ppm         2              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1		ES		 	
Magnesium         ppm         2              Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <11	Calcium	ppm	54	 	
Zinc         ppm         17              Phosphorus         ppm         1436              Barium         ppm         <1				 	
Phosphorus         ppm <b>1436</b> Barium         ppm <b>1</b>	-			 	
Barium ppm <b></b>			_	 	
	•		_	 	
		ppm	177	 	



#### STRONGCO EQUIPMENT-EDMONTON

25616 117 Ave NW Acheson, AB CA T7X 6C2 Contact: Jonathan Morton jmorton@strongco.com T: (780)464-1909 F: (780)464-0434

### 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. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The condition of the oil is acceptable for the time in service.

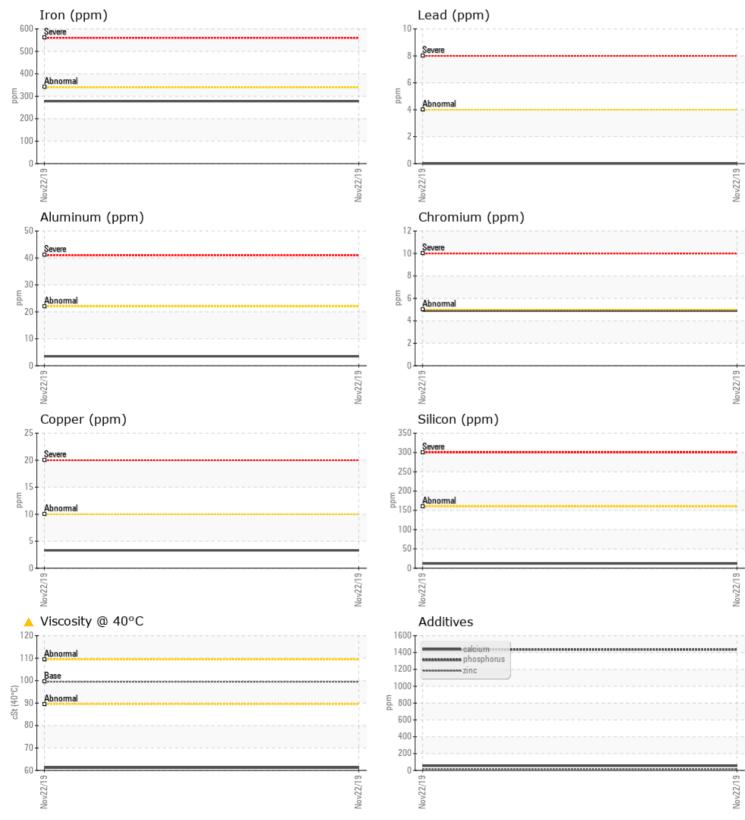
Depot:	VOLVO3908		
Unique No:	4967440		
Signed:	Kevin Marson		
Report Date:	03 Dec 2019		

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO3908 [WCAMIS] 02324142 (Generated: 09/28/2023 13:51:32) Rev: 1

Contact/Location: Jonathan Morton - VOLVO3908