

CONSTRUCTION EQUIPMENT VOLVO L90H 624521 - DIESEL ENGINE



Sample No: VCP437497

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: IAA

CAMPLE IN	NFORMATION			
	AI UNMATION			
Sample Number		VCP437497	 	
Sample Date		30 Apr 2024	 	
Machine Hours		8135	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDI.	TION			
Visc @ 100°C	cSt	12.6	 	
Base Number (BN)		10.6	 	
Oxidation (PA)	%	82	 	
	,,	<u></u>		
VOLVO			 	
CONTAMIN	NATION			
Water	%	NEG	 	
Soot %	%	■ 0.2	 	
Nitration (PA)	%	58	 	
Sulfation (PA)	%	60	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■ 5	 	
Sodium	ppm	■0	 	
Potassium	ppm	1	 	
	r r	_		
VOLVO	TALC			
WEAR ME	IAL3			
Iron	ppm	4	 	
Copper	ppm	■ <1	 	
Lead	ppm	■ <1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	2	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	■40	 	
Nickel	ppm	■0	 	
Titanium	ppm	<1	 	
Silver	ppm	■ 0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1640	 	
Magnesium	ppm	481	 	
Zinc	ppm	1054	 	
Phosphorus	ppm	■834	 	
Barium	ppm	■0	 	
zanam	rr'''			



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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO0093 **Unique No:** 11077118 Signed: Don Baldridge Report Date: 17 Jun 2024

39

ppm

Boron

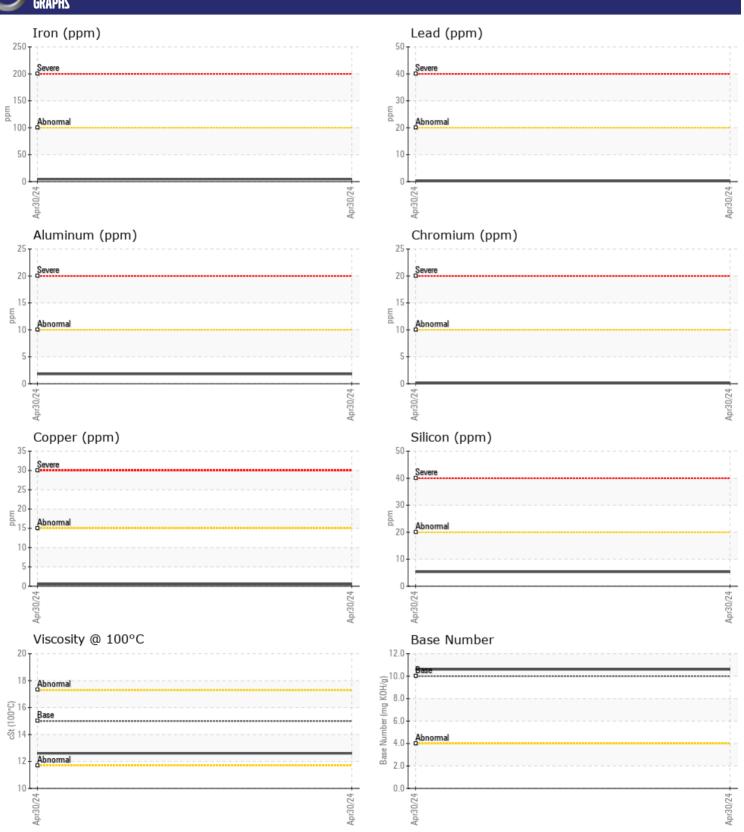


CONSTRUCTION EQUIPMENT





GRAPHS





CONSTRUCTION EQUIPMENT IAA VOLVO L90H 624521 - HYDRAULIC SYSTEM



Sample No: VCP437330

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: IAA

Sample Number					
Sample Date 30 Apr 2024	SAMPLE	INFORMATION			
Sample Date 30 Apr 2024	Sample Number		VCP437330	 	
Machine Hours 0 0 0 0 0 0 0 0 0			30 Apr 2024	 	
Oil Changed Sample Status Not Changd ATTENTION	•			 	
Sample Status	Oil Hours		0	 	
Sample Status	Oil Changed		Not Changd	 	
OIL CONDITION Visc @ 40°C cSt 43.5 <	Sample Status		ATTENTION	 	
OIL CONDITION Visc @ 40°C cSt 43.5 Acid Number (AN) mg KOH/g 0.35 CONTAMINATION Water % NEG Particles > 4µm 2589 Particles > 6µm 779 ISO 4406:1999 (c) 19/17/14 Silicon ppm 1 Sodium ppm 2 Sodium ppm 2 VEAR MET ALS VEAR MET ALS Iron ppm 0 Lead ppm 0					
CONTAMINATION Water % NEG Particles > 4µm 2589 Particles > 6µm 779 Particles > 14µm 106 SIGO 4406:1999 (c) 19/17/14 Sodium ppm 2 Potassium ppm 2 Copper ppm -1 Lead ppm -1 Lead ppm 0 Aluminum ppm 0 Molybdenum ppm 0 Silver ppm 0 Silver ppm 0 Manganese ppm 0 Manganese ppm 0	OIL COND	ITION			
Contamination Contaminatio Contamination Contamination Contamination Contamination	Visc @ 40°C	cSt	43.5	 	
Value		mg KOH/g	■ 0.35	 	
CONTAMINATION					
Water % NEG <td>CONTAM</td> <td>INATION</td> <td></td> <td></td> <td></td>	CONTAM	INATION			
Particles > 4μm 2589 Particles > 6μm 779 ISO 4406:1999 (c) 19/17/14 Silicon ppm 1 Sodium ppm 2 Potassium ppm <1	_	-	į		
Particles > 6µm		%		 	
Particles > 14µm	•			 	
Solicon				 	
Silicon ppm 1 </td <td></td> <td></td> <td></td> <td> </td> <td></td>				 	
Sodium					
VEAR METALS				 	
WEAR METALS Iron ppm 2 Copper ppm <1					
WEAR METALS Iron ppm 2 Copper ppm <1	Potassium	ppm	- <1	 	
WEAR METALS Iron ppm 2	VOLVO				
Copper ppm Lead ppm 1 Tin ppm 0 Aluminum ppm 0 Chromium ppm 1 Molybdenum ppm 2 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	WEAR MI	ETALS			
Lead ppm -1 Tin ppm 0 Aluminum ppm 0 Chromium ppm 1 Molybdenum ppm 2 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Iron	ppm	2	 	
Tin ppm 0 Aluminum ppm 0 Chromium ppm 1 Molybdenum ppm 2 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Copper	ppm	-<1	 	
Aluminum ppm 0 Chromium ppm 1 Molybdenum ppm 2 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Lead	ppm	■<1	 	
Chromium ppm 1 <	Tin	ppm	■0	 	
Molybdenum ppm 2 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Aluminum	ppm	■0	 	
Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Chromium	ppm	1	 	
Titanium ppm 0 Silver ppm 0 Manganese ppm 0	Molybdenum	ppm	2	 	
Silver ppm 0 Manganese ppm 0	Nickel	ppm	■0	 	
Manganese ppm □ 0	Titanium	ppm	0	 	
		ppm		 	
Vanadium ppm <1	Manganese	ppm	0	 	
	Vanadium	ppm	<1	 	



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

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO0093Unique No:11082863Signed:Wes DavisReport Date:17 Jun 2024

57

■4 **■**491

377

0

0

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

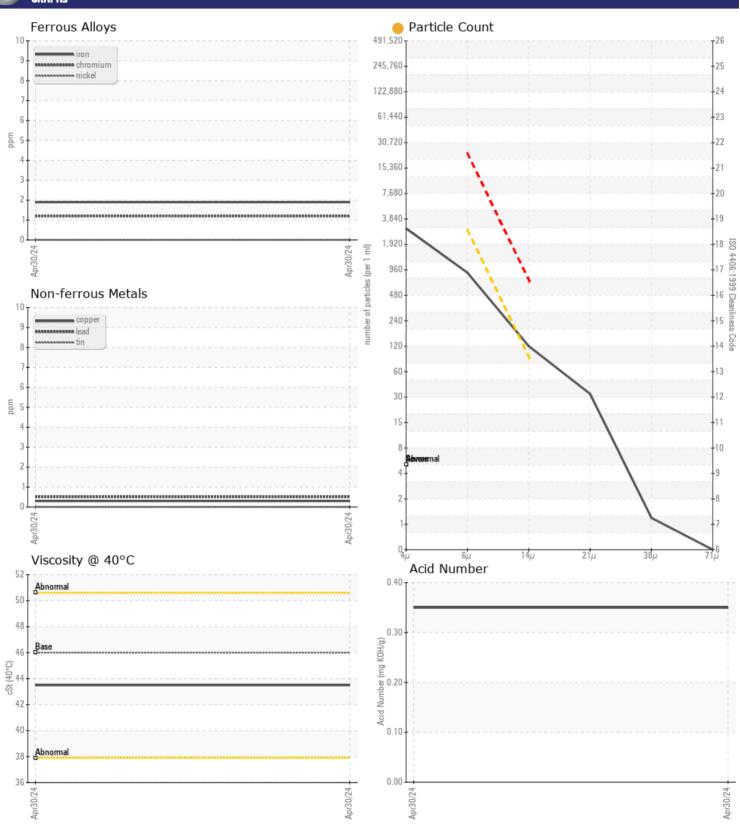


CONSTRUCTION EQUIPMENT





GRAPHS





CONSTRUCTION EQUIPMENT IAA VOLVO L90H 624521 - FRONT AXLE



Sample No: VCP445570

Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No: IAA

VOLVO	INFORMATIO	N		
	INFORMATIO		 	
Sample Number		VCP445570	 	
Sample Date		30 Apr 2024	 	
Machine Hours		8135	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	NITION			
Visc @ 40°C	cSt	42.7	 	
VOLVO				
CONTAM	IINATION			
Water	%	NEG	 	
Silicon		NEG ■15	 	
Sodium	ppm	-	 	
	ppm	□ 0 □ 2		
Potassium	ppm	 2	 	
VOLVO				
WEAR M	IETALS			
Iron	ppm	□ 27	 	
Copper	ppm	<1	 	
Lead	ppm	- <1	 	
Tin	ppm	0	 	
Aluminum	ppm	1	 	
Chromium	ppm	<u></u> <1	 	
Molybdenum	ppm	7	 	
Nickel	ppm	- <1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	
Variadiani	ppiii	· ·		
VOLVO			 	
ADDITIV	EZ			
Calcium	ppm	■3808	 	
Magnesium	ppm	43	 	
Zinc	ppm	1531	 	
Phosphorus	ppm	1194	 	
Barium	ppm	0	 	
Boron	ppm	130	 	



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:VOLVO0093Unique No:11083356Signed:Wes DavisReport Date:17 Jun 2024



CONSTRUCTION EQUIPMENT





