

CONSTRUCTION EQUIPMENT 572727 ALL COUNTY RE VOLVO L110H 631017 - DIESEL ENGINE

Sample No: VCP454557

Sodium

Potassium

ppm

ppm

3

2

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

Job No: 572727 ALL COUNTY RE

SAMPLE IN	IFORMATION				
Sample Number		VCP454557	VCP232217	VCP208231	VCP191720
Sample Date		29 May 2024	22 Jan 2020	24 Jul 2017	25 Apr 2017
Machine Hours		12291	5500	2469	2059
Oil Hours		0	0	0	500
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CONDIT	TION				
Visc @ 100°C	cSt	15.7	■13.8	13.77	14.18
Base Number (BN)	mg KOH/g	4.3			
Oxidation (PA)	%	121	75	□ 64	□44
CONTAMIN	IATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.5	□ 0.7	□ 0.1	□0
Nitration (PA)	%	127	68	50	4 2
Sulfation (PA)	%	91	59	■ 50	□44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	5	5	6

WEAR METALS								
Iron	ppm	■96	2 3	1 0	1 4			
Copper	ppm	■ 9	2	1	2			
Lead	ppm	A 37	< 1	0	■0			
Tin	ppm	4	2		0			
Aluminum	ppm	23	6	4	7			
Chromium	ppm	■3	- <1	- <1	1			
Molybdenum	ppm	70	4 2	4 0	4 1			
Nickel	ppm	■ 0	- <1	0	■0			
Titanium	ppm	0	0	0	<1			
Silver	ppm	■ 0	0	0	0			
Manganese	ppm	2	< 1	- <1	< 1			
Vanadium	ppm	<1	0	0	0			

- < 1

0

ADDITIVES								
Calcium	ppm	2473	1730	■ 1549	1384			
Magnesium	ppm	519	500	■ 510	649			
Zinc	ppm	1691	■931	■812	■918			
Phosphorus	ppm	1277	■860	1 710	7 91			
Barium	ppm	0	< 1	□0	0			
Boron	ppm	40	■30	■24	2 4			



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

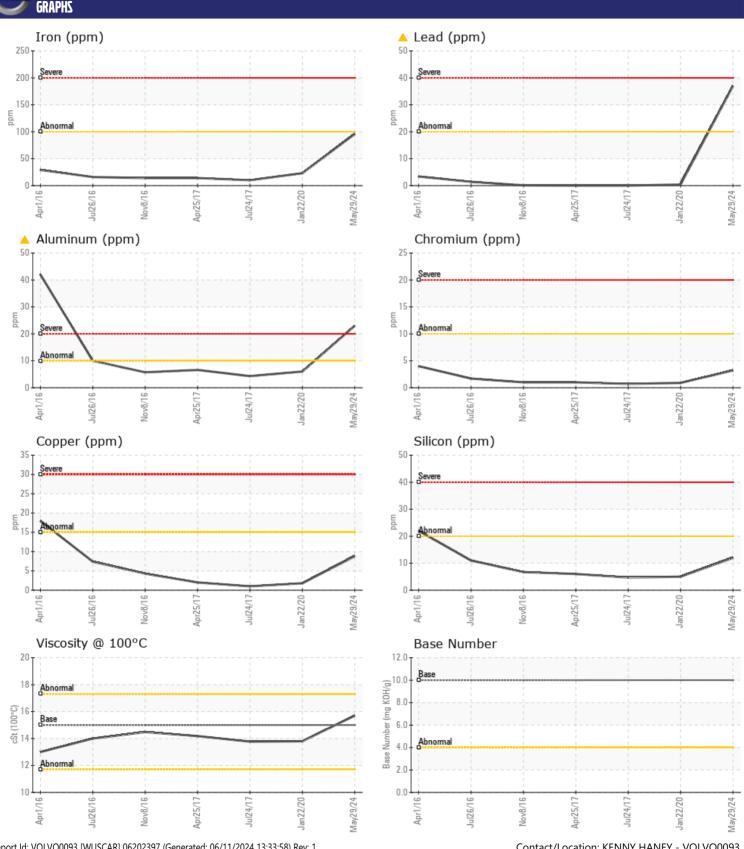
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The lead level is abnormal. The aluminum level is abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093 **Unique No:** 11069858 Signed: Sean Felton Report Date: 11 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO L110H 631017 - TRANSMISSION (AUTO)



Sample No: VCP191719
Oil Type: VOLVO AT 102

Job No:

SAMPLE	INFORMATION			
Sample Number		VCP191719	 	
Sample Date		25 Apr 2017	 	
Machine Hours		2059	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	27.08	 	
VOLVO				
CONTAN	INATION			
Water	%	NEG	 	
Silicon	ppm	■ 9	 	
Sodium	ppm	6	 	
Potassium	ppm	2	 	
Otassiani	ррпп			
VOLVO				
WEAR N	1ETALS			
Iron	ppm	43	 	
Copper	ppm	11	 	
Lead	ppm	■0	 	
Tin	ppm	■ 4	 	
Aluminum	ppm	■3	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	■ <1	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	4	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIV	IES			
Calcium	ppm	180	 	
Magnesium	ppm	6	 	
Zinc	ppm	58	 	
Phosphorus	ppm	196	 	
Barium	ppm	2	 	
Boron	ppm	49	 	



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Diagnosis

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

 Depot:
 VOLVO0093

 Unique No:
 7782100

 Signed:
 Wes Davis

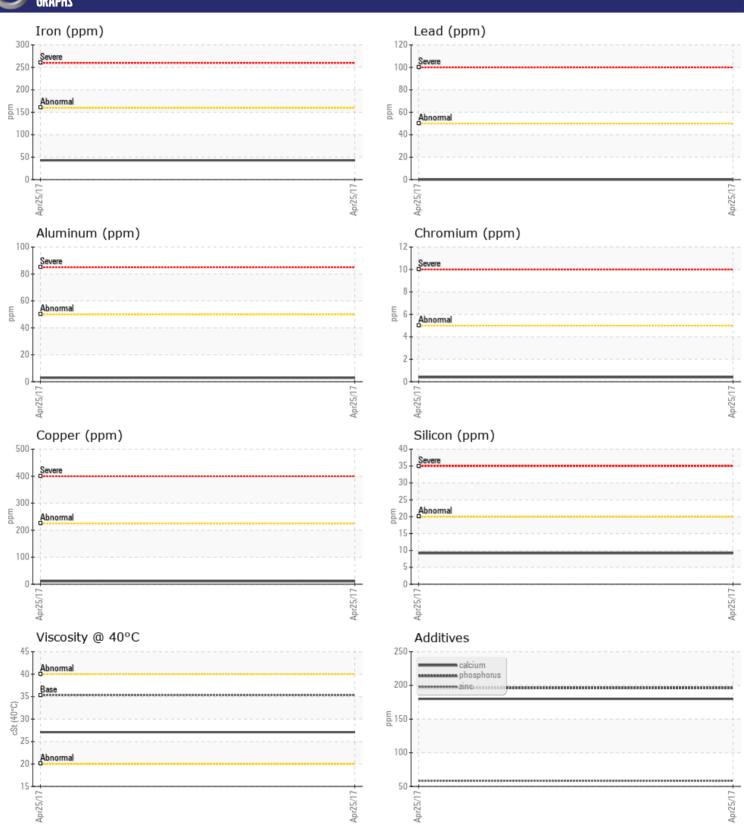
 Report Date:
 03 May 2017







GRAPHS





Sample No: VCP450648

Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No: 572727 ALL COUNTY RE

VOLVO				
SAMPLE	INFORMATION			
Sample Number	•	VCP450648	 	
Sample Date		29 May 2024	 	
Machine Hours		12291	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		SEVERE	 	
OIL CONI	DITION			
Visc @ 40°C	cSt	40.8	 	
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	13	 	
Sodium	ppm	■3	 	
Potassium	ppm	■0	 	
VOLVO				
WEAR M	IETALS			
Iron	ppm	▲ 162	 	
Copper	ppm	1	 	
Lead	ppm	■ 0	 	
Tin	ppm	■ 0	 	
Aluminum	ppm	0	 	
Chromium	ppm	2	 	
Molybdenum	ppm	2	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	■3	 	
Vanadium	ppm	0	 	
ADDITIV	ES			
Calcium	ppm	4005	 	
Magnesium	ppm	21	 	
Zinc	ppm	1620	 	
Phosphorus	ppm	1342	 	
Barium	ppm	0	 	
Boron	ppm	159	 	



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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

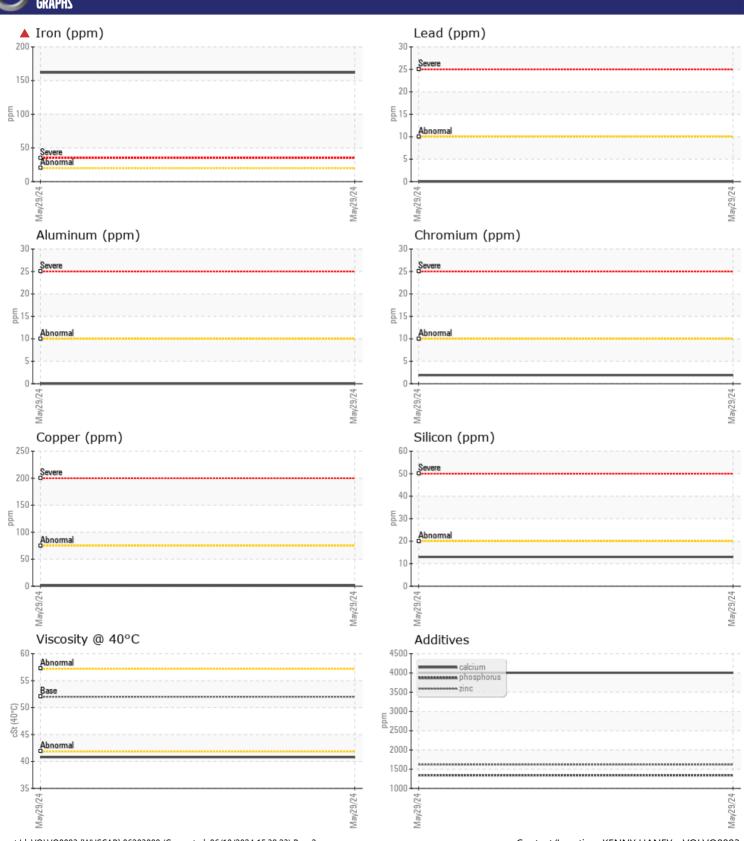
Depot:VOLVO0093Unique No:11070550Signed:Don BaldridgeReport Date:10 Jun 2024







GRAPH





CONSTRUCTION EQUIPMENT 572727 ALL COUNTY RE VOLVO L110H 631017 - HYDRAULIC SYSTE



Oil Type: **VOLVO SUPER HYDRAULIC OIL 46**

Job No: 572727 ALL COUNTY RE

SAMPLE IN	NFORMATION					
Sample Number		VCP450649	VCP193849			
Sample Date		29 May 2024	28 Apr 2017			
Machine Hours		12291	2059			
Oil Hours		0	2059			
Oil Changed		Not Changd	Changed			
Sample Status		ATTENTION	NORMAL			
OIL CONDIT	TION					
Visc @ 40°C	cSt	44.6	41.91			
Acid Number (AN)	mg KOH/g	■ 0.39	□ 0.409			
CONTAMINATION						

CONTAMIN	NATION			
Water	%	NEG	NEG	
Particles 5-15µm	count		78830	
Particles 15-25µm	count		1625	
Particles 25-50µm	count		104	
Particles 50-100µm	count		81	
Particles > 100µm	count		1079	
NAS Code			>12	
Particles >4µm		7956	5804	
Particles >6µm		1274	■896	
Particles >14µm		87	6 2	
ISO 4406:1999 (c)		20/17/14	20/17/13	
Silicon	ppm	■8	7	
Sodium	ppm	■ <1	4	
Potassium	ppm	■<1	2	

VOLVO				
WEAR	METALS			
WLAIL	ML I VL7	<u> </u>		
Iron	ppm	12	7	
Copper	ppm	■ 3	4	
Lead	ppm	2	2	
Tin	ppm	■<1	5	
Aluminum	ppm	■3	2	
Chromium	ppm	■<1	- <1	
Molybdenum	ppm	1	- <1	
Nickel	ppm	■ 0	0	
Titanium	ppm	<1	0	
Silver	ppm	0	<1	
Manganese	ppm	■ 0	< 1	
Vanadium	ppm	0	0	

ADDITIVES									
Calcium	ppm	75	□ 78						
Magnesium	ppm	■5	1 4						
Zinc	ppm	436	434						
Phosphorus	ppm	■333	■378						
Barium	- ppm					Contac			
Boron	ppm	■0	2						



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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.

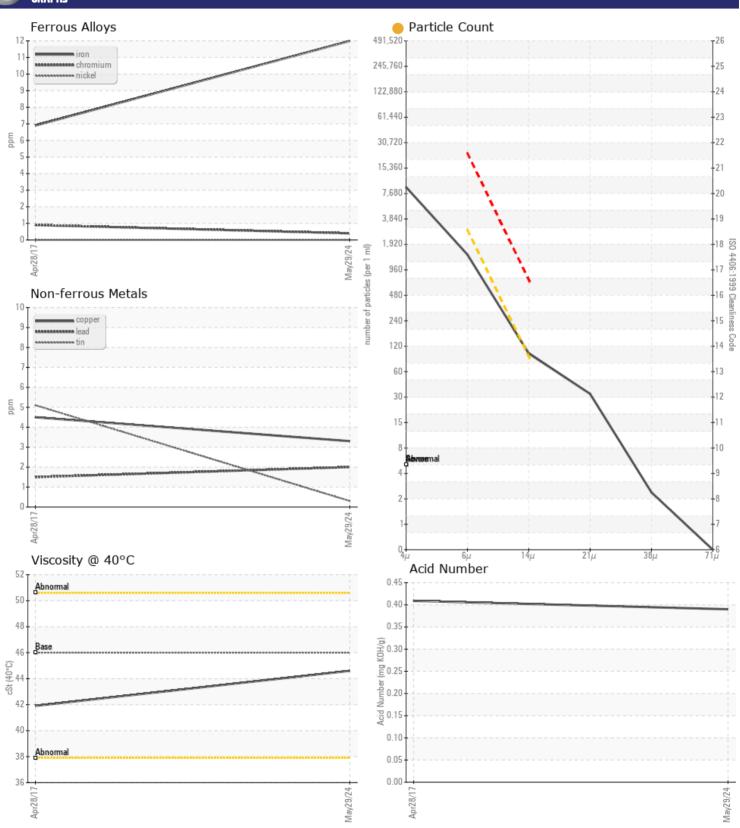
Depot: VOLVO0093 **Unique No:** 11070110 Signed: Wes Davis Report Date: 10 Jun 2024 /Location: KENNY HANEY - VOLVO0093







GRAPHS





CONSTRUCTION EQUIPMENT VOLVO L110H 631017 - FRONT AXLE



Sample No: VCP194061
Oil Type: VOLVO WB 102

Job No:

SAMPLE	E INFORMATION			
Sample Number	 -	VCP194061	 	
Sample Date		25 Apr 2017	 	
Machine Hours		2059	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	41.06	 	
Visc @ 40 C	CSt	— 41.00		
VOLVO				
CONTAI	MINATION			
Water	%	NEG	 	
Silicon	ppm	■18	 	
Sodium	ppm	6	 	
Potassium	ppm	■3	 	
WEAR N	METALS			
Iron	ppm	471	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	14	 	
Aluminum	ppm	1	 	
Chromium	ppm	10	 	
Molybdenum	ppm	9	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	14	 	
Vanadium	ppm	0	 	
ADDITIV	VES			
Calcium	ppm	4164	 	
Magnesium	ppm	20	 	
Zinc	ppm	1578	 	
Phosphorus	ppm	 1414	 	
Barium	ppm	<u> </u>	 	
Boron	ppm	■ 112	 	



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Diagnosis

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

 Depot:
 VOLVO0093

 Unique No:
 7782091

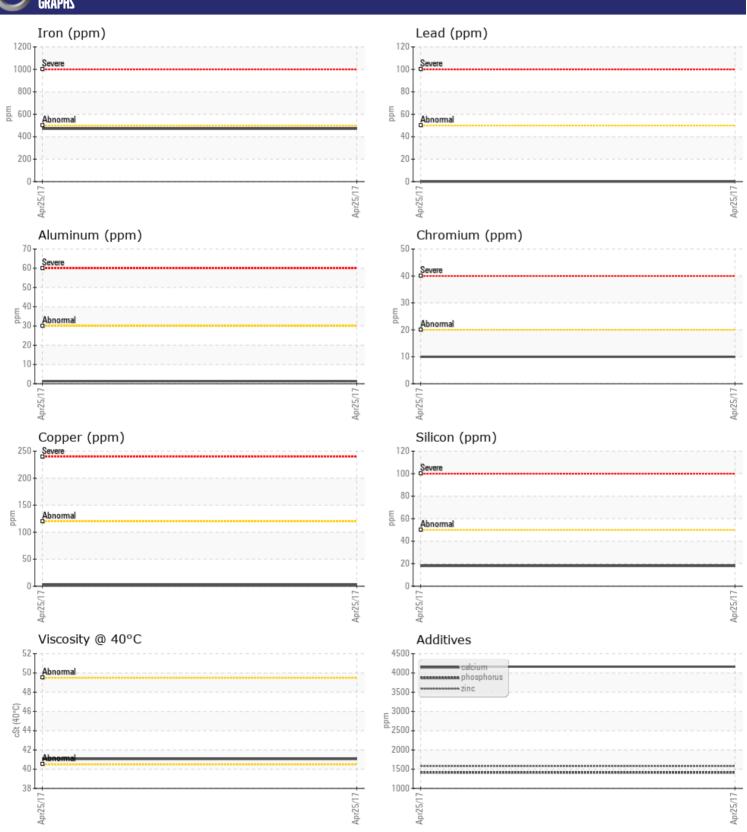
 Signed:
 Wes Davis

 Report Date:
 03 May 2017











Sample No: VCP450652
Oil Type: VOLVO WB 102

Job No: 572727 ALL COUNTY RE

VOLVO CAMPIE	INFORMATION	N		
Sample Number		VCP450652	VCP191718	
Sample Date		29 May 2024	28 Apr 2017	
Machine Hours		12291	2059	
Oil Hours		0	2059	
Oil Changed		Not Changd	Changed	
Sample Status		SEVERE	ABNORMAL	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	40.6	□ 40.61	
	CSt	-70.0	<u> </u>	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	NEG	
Silicon	ppm	■30	1 8	
Sodium	ppm	■3	1 4	
Potassium	ppm	■ 0	0	
	le le			
VOLVO				
WEAR N	METALS			
Iron	ppm	1741	<u></u> 565	
Copper	ppm	■ 4	3	
Lead	ppm	0	0	
Tin	ppm	■<1	1 3	
Aluminum	ppm	2	- <1	
Chromium	ppm	12	■8	
Molybdenum	ppm	201	1 0	
Nickel	ppm	■7	2	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	1 5	1 4	
Vanadium	ppm	<1	0	
	77		Ü	
VOLVO	IFC			
ADDITIV	EZ			
Calcium	ppm	■3973	4136	
Magnesium	ppm	■21	□18	
Zinc	ppm	■1592	■1598	
Phosphorus	ppm	■1322	1431	
Barium	ppm	0	<u> </u>	
Boron	ppm	163	113	



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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:VOLVO0093Unique No:11070551Signed:Don BaldridgeReport Date:10 Jun 2024







