CONSTRUCTION EQUIPMENT W02007688 VOLVO A35G 340132 - DIESEL ENGINE

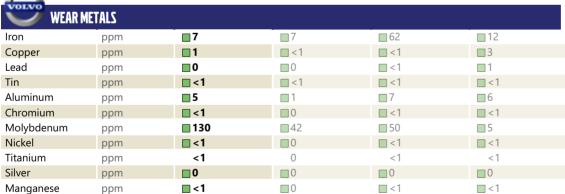


Sample No: VCP426062 Oil Type: MOBIL 15W40 Job No: W02007688

VOLVO

-							
LVO							
		N.		INC	ADV		
	- NA	МĽ	4 F	II. II	ORM	14	UI.

SAMPLE I	NFORMATION				
Sample Number	-	VCP426062	VCP419405	VCP396513	VCP277891
Sample Date		03 Nov 2023	15 Jun 2023	13 Mar 2023	26 Apr 2021
Machine Hours		9978	9559	9100	5941
Oil Hours		500	500	500	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	NORMAL
OIL CONDI	TION				
Visc @ 100°C	cSt	12.4	12.4	12.7	13.1
Base Number (BN)	mg KOH/g	8.2	7.1	10.3	
Oxidation (PA)	%	63	51	81	59
CONTAMI	NATION				
Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	63	69	71	71
Sulfation (PA)	%	62	55	62	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	<1.0	<1.0
Silicon	ppm	8	5	17	3
Sodium	ppm	A 314	A 274	<mark>▲</mark> 87	3
Potassium	ppm	<u> </u>	<mark>▲</mark> 39	▲ 35	4
VOLVO					
WEAR ME	TALS				
Iron	ppm	7	7	62	12
Copper	maa	1	■ < 1	□ <1	3



0

0

0

Vanadium

ADDITIVES						
Calcium	ppm	1630	2109	1714	1844	
Magnesium	ppm	586	158	498	543	
Zinc	ppm	1000	1093	1087	1051	
Phosphorus	ppm	829	917	909	929	
Barium	ppm	0	0	0	0	
Boron	ppm	229	14	34	47	



MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS 8450 QUARRY ROAD MANASSAS, VA US 20110 Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM T: (703)393-7344 F: (703)393-7844

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

 Depot:
 VOLVO002

 Unique No:
 10727902

 Signed:
 Jonathan Hester

 Report Date:
 08 Nov 2023

Report Id: VOLVO0002 [WUSCAR] 05999542 (Generated: 11/08/2023 13:19:32) Rev: 1

0

ppm

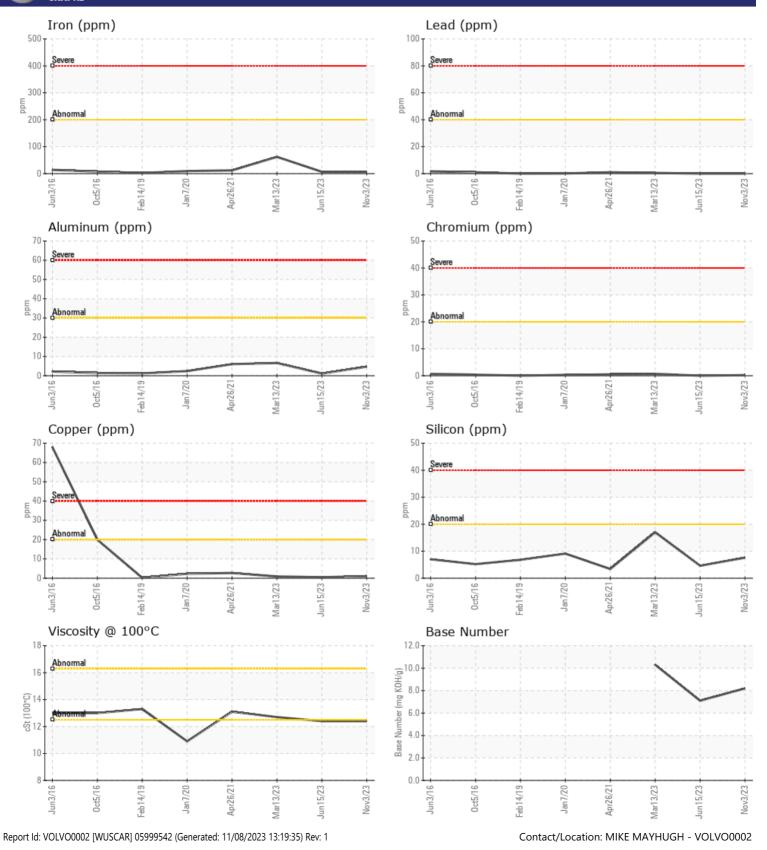
Contact/Location: MIKE MAYHUGH - VOLVO0002

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



 Sample No:
 VCP426058

 Oil Type:
 VOLVO AT 102

 Job No:
 W02007688

VOLVO

SAMPLE INFORMATION

SAMPLE	INFORMATION				
Sample Number		VCP426058	VCP396796	VCP277893	VCP189852
Sample Date		03 Nov 2023	13 Mar 2023	26 Apr 2021	07 Jan 2020
Machine Hours		9978	9100	5941	5126
Oil Hours		2000	1000	0	0
Oil Changed		Changed	Not Changd	Changed	Not Changd
Sample Status		NORMAL	ABNORMAL	NORMAL	NORMAL
OIL CONE	DITION				
Visc @ 40°C	cSt	27.9	26.65	26.4	26.2
CONTAM	INATION				
Silicon	ppm	5	5	2	6
Sodium	ppm	5	0	5	3
Potassium	ppm	□ <1	2	1	6
WEAR M	ETALS				
Iron	ppm	30	25	40	37
Copper	ppm	20	18	14	12
Lead	ppm	0	0	0	0
Tin	ppm	2	2	4	2
Aluminum	ppm	21	18	25	23
Chromium	ppm	0	0	□ <1	0
Molybdenum	ppm	■ <1	<1	□ <1	0
Nickel	ppm	 <1	1	2	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■<1	<1	□ <1	□ <1
Vanadium	ppm	0	0	0	0
ADDITIV	ES		<u>-</u>		
Calcium	ppm	157	194	82	86
Magnesium	ppm	□ <1	2	 <1	1
Zinc	ppm	4 3	47	4	8
Phosphorus	ppm	193	227	162	155
Barium	ppm	0	0	0	0

87

76

69



MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS 8450 QUARRY ROAD MANASSAS, VA US 20110 Contact: MIKE MAYHUGH

Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM T: (703)393-7344 F: (703)393-7844

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:
 VOLVO002

 Unique No:
 10728509

 Signed:
 Sean Felton

 Report Date:
 08 Nov 2023

87

Boron

ppm

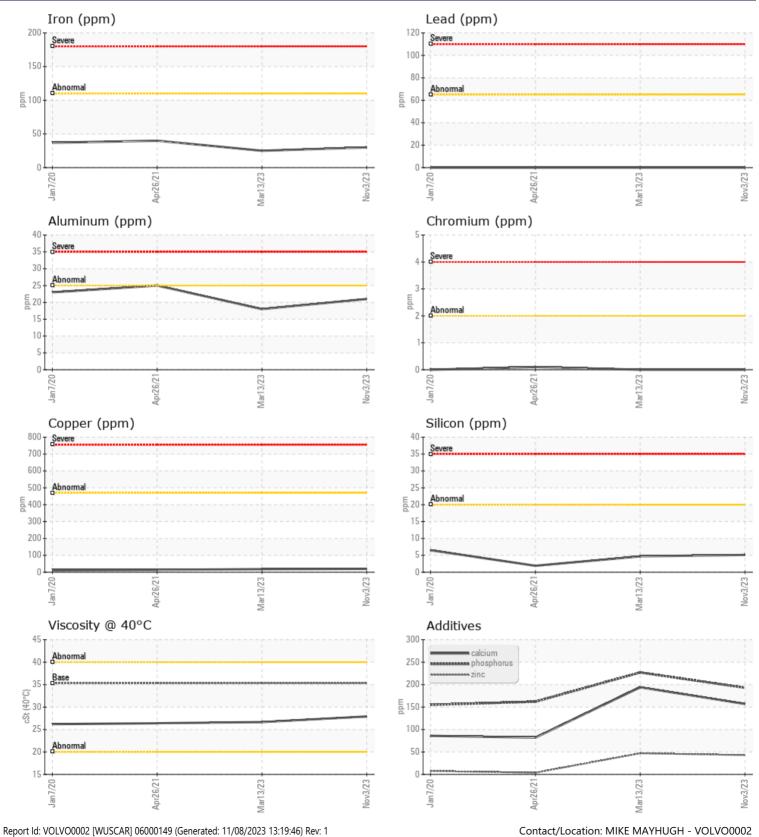
Contact/Location: MIKE MAYHUGH - VOLVO0002

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO





CONSTRUCTION EQUIPMENT W05003725-1 VOLVO A35G 340132 - DROP BOX



Sample No:	VCP419857
Oil Type:	{unknown}
Job No:	W05003725-1

SAMPLE INFORMATION

Sample Numbei	r	VCP419857	VCP369381	
Sample Date		11 Jul 2023	13 Mar 2023	
Machine Hours		9625	9100	
Oil Hours		0	500	
Oil Changed		N/A	N/A	
Sample Status		NORMAL	SEVERE	
OIL CO	NDITION			
Visc @ 40°C	cSt	□ 52.0	69.0	
CONTA	MINATION			
Water	%	NEG	▲ 5.20	
Silicon	ppm	2	10	
Sodium	ppm	2	4	
Potassium	ppm	2	2	

WEAR I	METALS			
Iron	ppm	225	93	
Copper	ppm	2	2	
Lead	ppm	0	<1	
Tin	ppm	■ <1	<1	
Aluminum	ppm	1 4	15	
Chromium	ppm	2	2	
Molybdenum	ppm	<1	5	
Nickel	ppm		<1	
Titanium	ppm	0	<1	
Silver	ppm	<1	<1	
Manganese	ppm	7	2	
Vanadium	ppm	0	<1	

ADITIVES						
Calcium	ppm	115	660			
Magnesium	ppm	5	20			
Zinc	ppm	366	552			
Phosphorus	ppm	2474	794			
Barium	ppm	0	0			
Boron	ppm	54	99			



MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS

8450 QUARRY ROAD
MANASSAS, VA
US 20110
Contact: MIKE MAYHUGH
MMAYHUGH@MCCLUNG-LOGAN.COM
T: (703)393-7344
F: (703)393-7844

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:
 VOLVO0002

 Unique No:
 10559586

 Signed:
 Jonathan Hester

 Report Date:
 17 Jul 2023

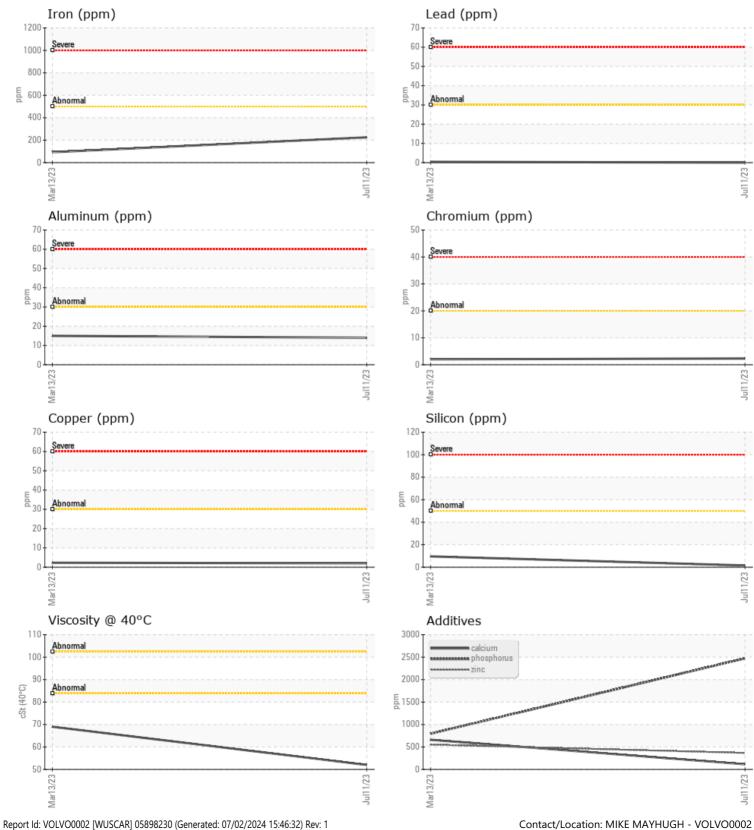
 ct/Location:
 MIKE MAYHUGH - VOLVO000

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



ontact/ Location. Mille MATHOGH - Vol