

## CONSTRUCTION EQUIPMENT 568112 LKQ VOLVO L90F 68771 - DIESEL ENGINE



Sample No: VCP416244

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

**Job No:** 568112 LKQ

VOLVO	INFORMATION				
_	INFURMATION				
Sample Number		VCP416244	VCP391273	VCP303706	
Sample Date		07 Jul 2023	16 Oct 2022	16 Aug 2021	
Machine Hours		11899	11437	10040	
Oil Hours		500	500	500	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	
VOLVO					
OIL COND	ITION				
/isc @ 100°C	cSt	<b>15.0</b>	<b>14.1</b>	<u>▲</u> 12.3	
Base Number (BN)	mg KOH/g	■8.5	10.9		
Oxidation (PA)	%	76	71	76	
CONTAMI	MATION				
_					
Soot %	%	■0.8	□ 0.5	□ 0.2	
Nitration (PA)	%	85	70	48	
Sulfation (PA)	%	63	61	63	
Glycol	%	NEG	NEG	NEG	
uel	%	<1.0	<1.0	■ 0.0	
Silicon	ppm	<b>4</b>	<b>7</b>	<u>^</u> 21	
Sodium	ppm	<b>1</b>	<b>2</b>	■9	
Potassium	ppm	■3	3	<b>27</b>	
VOLVO					
<b>WEAR MI</b>	ETALS				
ron	ppm	<b>28</b>	<b>1</b> 7	<b>1</b> 9	
Copper	ppm	<b>7</b>	3	<b>1</b> 5	
ead.	ppm	<b>■</b> 0	<b>1</b> 2	1	
in	ppm	<b>2</b>	1	2	
Aluminum	ppm	<b>1</b>	0	□0	
Chromium	ppm	<b>■</b> <1	3	<b>1</b>	
Molybdenum	ppm	<b>61</b>	<b>1</b> 58	<b>1</b> 41	
Nickel	ppm	■0	0	<1	
itanium	ppm	0	0	<1	
Silver	ppm	■0	<1	0	
Manganese	ppm	<b>■</b> <1	<b>-</b> <1	<b>1</b> 2	
/anadium	ppm	<1	<1	0	
VOLVO					
ADDITIVE	:7				
Calcium	ppm	<b>1138</b>	■1172	■2118	
Magnesium	ppm	■1035	913	<b>463</b>	
Zinc	ppm	<b>1297</b>	<b>1248</b>	■ 1056	
Phosphorus	ppm	<b>1047</b>	985	■990	

**0** 

**0** 



ALTA EQUIPMENT COMPANY - METRO WEST 56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL CONZ paul.conz@altg.com T: (313)348-8861 F: (248)356-2029

## 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 acceptable for the time in service.

Depot:VOLVO2990Unique No:10551687Signed:Don BaldridgeReport Date:13 Jul 2023

ppm

ppm

**0** 

Barium

Boron



## **CONSTRUCTION EQUIPMENT**





## GRAPHS

