



# CONSTRUCTION EQUIPMENT

8000375290 VOLVO L45HS 4222197 - DIESEL ENGINE



**Sample No:** VCP353401  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8000375290



## SAMPLE INFORMATION

Sample Number	<b>VCP353401</b>	VCP392445	VCP392398	VCP379567
Sample Date	<b>17 Aug 2023</b>	17 Jul 2023	25 Apr 2023	14 Mar 2023
Machine Hours	<b>1901</b>	1656	1054	731
Oil Hours	<b>0</b>	500	0	731
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

**STRONGCO EQUIP (AB)**  
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## OIL CONDITION

Visc @ 40°C	cSt	---	---	---	▲ 28.3
Visc @ 100°C	cSt	■ 12.5	■ 12.8	■ 12.7	▲ 5.5
Viscosity Index (VI)	Scale	---	---	---	■ 134
Oxidation (PA)	%	■ 78	85	80	57

## 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.



## CONTAMINATION

Soot %	%	■ 0	■ 0.2	■ 0	■ 0
Nitration (PA)	%	■ 48	58	51	27
Sulfation (PA)	%	■ 64	65	62	60
Glycol	%	■ NEG	NEG	NEG	■ 0.0
Fuel	%	■ <1.0	<1.0	<1.0	▲ 4.7
Silicon	ppm	■ 6	■ 12	■ 8	■ 5
Sodium	ppm	■ 3	■ 3	■ 2	■ 4
Potassium	ppm	■ <1	■ <1	■ <1	■ 7



## WEAR METALS

Iron	ppm	■ 8	■ 20	■ 13	■ 45
Copper	ppm	■ 2	■ 3	■ 2	■ <1
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ <1	■ 1	■ <1	■ 0
Aluminum	ppm	■ 1	■ 2	■ 3	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 39	■ 41	■ 39	■ 0
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	<1	<1	1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 1	■ <1
Vanadium	ppm	0	0	0	0



## ADDITIVES

Calcium	ppm	■ 1635	■ 1680	■ 1708	▲ 214
Magnesium	ppm	■ 500	■ 523	■ 498	▲ 2
Zinc	ppm	■ 1066	■ 1079	■ 1044	▲ 55
Phosphorus	ppm	■ 955	■ 967	■ 957	▲ 249
Barium	ppm	■ 0	■ 0	■ 0	■ 3
Boron	ppm	■ 45	■ 33	■ 52	■ 75

**Depot:** VOLVO9652  
**Unique No:** 5631449  
**Signed:** Wes Davis  
**Report Date:** 25 Aug 2023



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## GRAPHS

