



# CONSTRUCTION EQUIPMENT

A11036 LEW VOLVO A40G 342518 - DIESEL ENGINE



**Sample No:** VCP425284  
**Oil Type:** MOBIL 15W40  
**Job No:** A11036 LEW



## SAMPLE INFORMATION

Sample Number	<b>VCP425284</b>	VCP399900	VCP389503	VCP334665
Sample Date	<b>14 Sep 2023</b>	24 Feb 2023	18 Oct 2022	12 Nov 2021
Machine Hours	<b>5000</b>	4529	4365	2960
Oil Hours	<b>500</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**HOFFMAN EQUIPMENT - LIONVILLE**  
120 GORDON DRIVE  
LIONVILLE, PA  
US 19341  
Contact: JIM FEHR  
jim.fehr@hoffmanequip.com  
T: (610)363-9200  
F: (610)594-0829



## OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.4</b>	█ 13.1	█ 12.5	▲ 11.4
Base Number (BN)	mg KOH/g	█ <b>9.7</b>	█ 9.8	█ 11.2	---
Oxidation (PA)	%	<b>75</b>	53	82	76

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



## CONTAMINATION

Soot %	%	█ <b>0.1</b>	█ 0.1	█ 0.2	█ 0.3
Nitration (PA)	%	<b>51</b>	48	60	74
Sulfation (PA)	%	<b>57</b>	49	63	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	█ <b>0.8</b>	<1.0	<1.0	█ 0.3
Silicon	ppm	█ <b>5</b>	█ 3	█ 5	█ 8
Sodium	ppm	█ <b>6</b>	█ 0	█ 0	█ 4
Potassium	ppm	█ <b>4</b>	█ 2	█ 0	█ <1



## WEAR METALS

Iron	ppm	█ <b>6</b>	█ 13	█ 9	█ 32
Copper	ppm	█ <b>5</b>	█ 4	█ <1	█ 7
Lead	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ <1
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ 1
Aluminum	ppm	█ <b>1</b>	█ 2	█ 2	█ 3
Chromium	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ <1
Molybdenum	ppm	█ <b>49</b>	█ 50	█ 42	█ 45
Nickel	ppm	█ <b>0</b>	█ 0	█ 0	█ <1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Manganese	ppm	█ <b>1</b>	█ <1	█ <1	█ <1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	█ <b>1869</b>	█ 1137	█ 1654	█ 1634
Magnesium	ppm	█ <b>628</b>	█ 843	█ 496	█ 535
Zinc	ppm	█ <b>1316</b>	█ 1125	█ 1059	█ 909
Phosphorus	ppm	█ <b>1110</b>	█ 943	█ 904	█ 821
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>76</b>	█ 15	█ 47	█ 26

**Depot:** VOLVO8879  
**Unique No:** 10672660  
**Signed:** Wes Davis  
**Report Date:** 04 Oct 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

