



# CONSTRUCTION EQUIPMENT

A12544 VOLVO L120H 633139 - DIESEL ENGINE



**Sample No:** VCP439206  
**Oil Type:** MOBIL 15W40  
**Job No:** A12544



## SAMPLE INFORMATION

Sample Number	<b>VCP439206</b>	VCP446021	VCP440440	VCP434156
Sample Date	<b>30 Apr 2024</b>	18 Mar 2024	14 Feb 2024	06 Dec 2023
Machine Hours	<b>4920</b>	4650	4430	3950
Oil Hours	<b>250</b>	250	250	250
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### GOURMETS DELIGHT

PO BOX 160  
 AVONDALE, PA  
 US 19311  
 Contact: GABE VALENTINO  
 gabe.valentino@gourmetsfinest.com  
 T: (610)268-3578  
 F: (610)268-2298



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.4	13.3	13.1
Base Number (BN)	mg KOH/g	<b>7.4</b>	7.5	7.2	6.9
Oxidation (PA)	%	<b>43</b>	41	37	39



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>57</b>	53	52	53
Sulfation (PA)	%	<b>46</b>	45	44	45
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	3	3
Sodium	ppm	<b>&lt;1</b>	2	0	<1
Potassium	ppm	<b>3</b>	2	3	2



## WEAR METALS

Iron	ppm	<b>4</b>	4	4	5
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>7</b>	7	7	11
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>30</b>	20	<1	<1
Silver	ppm	<b>&lt;1</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1958</b>	2081	1886	1976
Magnesium	ppm	<b>185</b>	153	71	159
Zinc	ppm	<b>1063</b>	1091	899	1030
Phosphorus	ppm	<b>927</b>	938	834	808
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>50</b>	36	7	8

### 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 suitable for further service.

**Depot:** GOUAVO  
**Unique No:** 11032256  
**Signed:** Wes Davis  
**Report Date:** 16 May 2024



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## VOLVO GRAPHS

