



# CONSTRUCTION EQUIPMENT

## A10901 VOLVO A30D 70020 - DROP BOX



**Sample No:** VCP413659  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A10901



### SAMPLE INFORMATION

Sample Number	<b>VCP413659</b>	VCP240673	VCP217780	VCP202936
Sample Date	<b>16 Aug 2023</b>	27 Aug 2019	31 Jan 2018	11 Aug 2016
Machine Hours	<b>11015</b>	10170	9640	9050
Oil Hours	<b>500</b>	1500	1000	500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

**JAMES J ANDERSON**  
 6958 TORRESDALE AVENUE  
 PHILADELPHIA, PA  
 US 19135  
 Contact: JOHN HERBUT  
 herb@jjaconstruction.com  
 T: (215)850-9051  
 F: (215)427-0208



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 59.9</b>	■ 343	■ 345.6	■ 338.8
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### CONTAMINATION

Silicon	ppm	■ <b>2</b>	■ 4	■ 6	■ 5
Sodium	ppm	■ <b>1</b>	■ 4	■ 4	■ 4
Potassium	ppm	■ <b>0</b>	■ 6	■ 1	■ 3



### WEAR METALS

Iron	ppm	■ <b>8</b>	■ 15	■ 18	■ 10
Copper	ppm	■ <b>0</b>	■ <1	■ 0	■ <1
Lead	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Tin	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>2</b>	■ <1	■ <1	■ <1
Chromium	ppm	■ <b>0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <b>0</b>	■ <1	■ <1	■ 1
Nickel	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ 0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>▲ 14</b>	■ 27	■ 30	■ 26
Magnesium	ppm	■ <b>2</b>	■ 5	■ 6	■ 6
Zinc	ppm	<b>▲ 9</b>	■ 22	■ 24	■ 19
Phosphorus	ppm	<b>▲ 2367</b>	■ 810	■ 865	■ 853
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ <1
Boron	ppm	■ <b>273</b>	■ 131	■ 145	■ 138

### 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** JAAPHI  
**Unique No:** 10618286  
**Signed:** Sean Felton  
**Report Date:** 25 Aug 2023



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## GRAPHS

