



# CONSTRUCTION EQUIPMENT

## 734641 MARTIN MARIET VOLVO A60H 350019 - DIESEL ENGINE



**Sample No:** VCP420969  
**Oil Type:** CHEVRON 15W40  
**Job No:** 734641 MARTIN MARIET



### SAMPLE INFORMATION

Sample Number	<b>VCP420969</b>	VCP318531	VCP302584	VCP271812
Sample Date	<b>28 Mar 2023</b>	07 Aug 2021	03 Mar 2021	22 Jan 2021
Machine Hours	<b>5556</b>	3377	2742	2583
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>SEVERE</b>	SEVERE	NORMAL	NORMAL

**ROMCO INC - AUSTIN BRANCH**  
 1150 WEST OLD SETTLERS BOULEVARD  
 ROUNDROCK, TX  
 US 78681  
 Contact: MATT MACHANN  
 mmachann@romco.com  
 T: (832)270-0121  
 F: (512)845-7565



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.7	13.2	12.5
Base Number (BN)	mg KOH/g	<b>9.6</b>	---	---	---
Oxidation (PA)	%	<b>60</b>	71	67	69



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.3	0.7
Nitration (PA)	%	<b>52</b>	92	56	69
Sulfation (PA)	%	<b>60</b>	80	64	64
Glycol	%	<b>0.10</b>	0.10	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	11	5	6
Sodium	ppm	<b>230</b>	1201	11	1
Potassium	ppm	<b>305</b>	382	3	0



### WEAR METALS

Iron	ppm	<b>3</b>	18	7	15
Copper	ppm	<b>2</b>	51	4	21
Lead	ppm	<b>0</b>	2	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	2	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>173</b>	141	115	108
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1617</b>	1490	1500	1536
Magnesium	ppm	<b>656</b>	667	608	560
Zinc	ppm	<b>913</b>	912	827	889
Phosphorus	ppm	<b>749</b>	850	742	781
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>279</b>	127	297	240

### Diagnosis

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO0088  
**Unique No:** 10406144  
**Signed:** Wes Davis  
**Report Date:** 07 Apr 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

