



# CONSTRUCTION EQUIPMENT

## A10956 VOLVO A40G 352005 - HYDRAULIC SYSTEM



**Sample No:** VCP339281  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A10956



### SAMPLE INFORMATION

Sample Number	<b>VCP339281</b>	VCP367402	VCB0000041	VCB0000033
Sample Date	<b>29 Aug 2023</b>	28 Nov 2022	23 Feb 2022	07 Apr 2021
Machine Hours	<b>3205</b>	2725	2080	1495
Oil Hours	<b>3205</b>	0	2080	1495
Oil Changed	<b>Not Chngd</b>	Not Chngd	Oil Added	Not Chngd
Sample Status	<b>SEVERE</b>	NORMAL	NORMAL	NORMAL

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.5</b>	40.2	40.4	40.9
Acid Number (AN)	mg KOH/g	<b>0.31</b>	0.35	0.35	0.463

### CONTAMINATION

Particles >4µm		<b>107945</b>	3703	13547	4729
Particles >6µm		<b>39248</b>	897	2527	839
Particles >14µm		<b>1471</b>	64	104	29
ISO 4406:1999 (c)		<b>24/22/18</b>	19/17/13	21/19/14	19/17/12
Silicon	ppm	<b>8</b>	6	6	4
Sodium	ppm	<b>1</b>	2	2	3
Potassium	ppm	<b>0</b>	0	0	0

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

### WEAR METALS

Iron	ppm	<b>9</b>	8	5	3
Copper	ppm	<b>4</b>	4	3	3
Lead	ppm	<b>3</b>	3	2	2
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	1	1	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>59</b>	54	63	49
Magnesium	ppm	<b>2</b>	3	0	<1
Zinc	ppm	<b>430</b>	431	405	439
Phosphorus	ppm	<b>334</b>	355	356	317
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	<1	2

**Depot:** DYEBIR  
**Unique No:** 10648651  
**Signed:** Wes Davis  
**Report Date:** 18 Sep 2023



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## VOLVO GRAPHS

