



# CONSTRUCTION EQUIPMENT

## A11112 PEDRO PALMER VOLVO EC160E 314028 - HYDRAULIC SYSTEM



**Sample No:** VCP412353  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A11112 PEDRO PALMER



**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

### SAMPLE INFORMATION

Sample Number	<b>VCP412353</b>	VCP365714	VCP288095	---
Sample Date	<b>15 Sep 2023</b>	03 Nov 2022	17 Nov 2020	---
Machine Hours	<b>2020</b>	1579	510	---
Oil Hours	<b>2000</b>	0	510	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>NORMAL</b>	ATTENTION	ABNORMAL	---

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.3</b>	41.6	44.0	---
Acid Number (AN)	mg KOH/g	<b>0.51</b>	0.51	0.471	---

### CONTAMINATION

Particles >4µm		<b>10675</b>	49338	---	---
Particles >6µm		<b>214</b>	8176	---	---
Particles >14µm		<b>6</b>	510	---	---
ISO 4406:1999 (c)		<b>21/15/10</b>	23/20/16	---	---
Silicon	ppm	<b>4</b>	3	3	---
Sodium	ppm	<b>0</b>	<1	0	---
Potassium	ppm	<b>&lt;1</b>	0	<1	---

### WEAR METALS

Iron	ppm	<b>2</b>	3	2	---
Copper	ppm	<b>53</b>	46	32	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>0</b>	<1	0	---
Chromium	ppm	<b>2</b>	1	<1	---
Molybdenum	ppm	<b>0</b>	<1	0	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>48</b>	78	75	---
Magnesium	ppm	<b>&lt;1</b>	0	<1	---
Zinc	ppm	<b>459</b>	452	475	---
Phosphorus	ppm	<b>363</b>	376	367	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	<1	---

### 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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** VOLVO8879  
**Unique No:** 10672753  
**Signed:** Don Baldrige  
**Report Date:** 03 Oct 2023

