



# CONSTRUCTION EQUIPMENT

JJ SPRAGUE HITACHI EX450LC-5 16CP007812 - LEFT DRIVE



**Sample No:** VCP417483  
**Oil Type:** NOT GIVEN  
**Job No:** JJ SPRAGUE



## SAMPLE INFORMATION

Sample Number	VCP417483	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	14253	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**ARNOLD MACHINERY COMPANY**  
4323 EAST WINSLOW AVENUE  
PHOENIX, AZ  
US 85040  
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## OIL CONDITION

Visc @ 40°C	cSt	█ 148	---	---	---
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## CONTAMINATION

Silicon	ppm	● 3898	---	---	---
Sodium	ppm	█ 196	---	---	---
Potassium	ppm	█ 460	---	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



## WEAR METALS

Iron	ppm	● 1918	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 883	---	---	---
Chromium	ppm	● 30	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	▲ 8	---	---	---
Titanium	ppm	▲ 46	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	26	---	---	---
Vanadium	ppm	3	---	---	---



## ADDITIVES

Calcium	ppm	913	---	---	---
Magnesium	ppm	362	---	---	---
Zinc	ppm	0	---	---	---
Phosphorus	ppm	804	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	132	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10634473  
**Signed:** Doug Bogart  
**Report Date:** 11 Sep 2023



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## GRAPHS

