



CONSTRUCTION EQUIPMENT

JJ SPRAGUE HITACHI EX450LC-5 16CP007812 - RIGHT DRIVE



Sample No: VCP414452
Oil Type: GEAR OIL SAE 80W90
Job No: JJ SPRAGUE



SAMPLE INFORMATION

Sample Number	VCP414452	---	---	---
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
Contact: RANDY PRZEKURAT
randyp@arnoldmachinery.com
T:
F: (602)414-1904



OIL CONDITION

Visc @ 40°C	cSt	█ 145	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Silicon	ppm	▲ 774	---	---	---
Sodium	ppm	█ 34	---	---	---
Potassium	ppm	█ 71	---	---	---

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 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	▲ 801	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 174	---	---	---
Chromium	ppm	▲ 14	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	10	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 9	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 156	---	---	---
Magnesium	ppm	█ 62	---	---	---
Zinc	ppm	█ 14	---	---	---
Phosphorus	ppm	█ 925	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 179	---	---	---

Depot: VOLVO6174
Unique No: 10634472
Signed: Don Baldrige
Report Date: 08 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

