



CONSTRUCTION EQUIPMENT

SW1024983 UPPER VALL VOLVO EC160D 220030 - FRONT LEFT FINAL DRIVE



Sample No: VCP435300
Oil Type: GL5
Job No: SW1024983 UPPER VALL



ARNOLD MACHINERY COMPANY
3330 NORTH YELLOWSTONE HIGHWAY
IDAHO FALLS, ID
US 83401
Contact: JASON MERRILL
jmerrill@arnoldmachinery.com
T: (208)523-0822
F: (208)523-9918



SAMPLE INFORMATION

Sample Number	VCP435300	---	---	---
Sample Date	13 Nov 2023	---	---	---
Machine Hours	5506	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	■ 214	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 203	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 11	---	---	---



WEAR METALS

Iron	ppm	▲ 607	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 30	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	355	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	38	---	---	---
Magnesium	ppm	15	---	---	---
Zinc	ppm	9	---	---	---
Phosphorus	ppm	611	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	18	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. 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 condition of the oil is acceptable for the time in service.

Depot: VOLVO0077
Unique No: 10753439
Signed: Don Baldrige
Report Date: 24 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

