



CONSTRUCTION EQUIPMENT

SW30008 VOLVO EC950FL 410035 - DIESEL ENGINE



Sample No: VCP440848
Oil Type: MOBIL 15W40
Job No: SW30008



SAMPLE INFORMATION

Sample Number	VCP440848	VCP441015	---	---
Sample Date	15 Feb 2024	15 Dec 2023	---	---
Machine Hours	2000	1985	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	█ 14.5	---	---
Base Number (BN)	mg KOH/g	█ 5.1	█ 5.6	---	---
Oxidation (PA)	%	74	76	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 1.3	█ 1.3	---	---
Nitration (PA)	%	93	92	---	---
Sulfation (PA)	%	68	67	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	█ 12	---	---
Sodium	ppm	█ 4	█ <1	---	---
Potassium	ppm	█ 3	█ 1	---	---



WEAR METALS

Iron	ppm	█ 22	█ 22	---	---
Copper	ppm	█ 12	█ 10	---	---
Lead	ppm	█ 2	█ 1	---	---
Tin	ppm	█ 2	█ 1	---	---
Aluminum	ppm	█ 5	█ 5	---	---
Chromium	ppm	█ 2	█ 1	---	---
Molybdenum	ppm	█ 89	█ 93	---	---
Nickel	ppm	█ 6	█ 5	---	---
Titanium	ppm	1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1933	█ 2303	---	---
Magnesium	ppm	█ 80	█ 98	---	---
Zinc	ppm	█ 1111	█ 1328	---	---
Phosphorus	ppm	█ 872	█ 1106	---	---
Barium	ppm	█ 34	█ 0	---	---
Boron	ppm	█ 17	█ 23	---	---

Depot: VOLVO0077
Unique No: 10898172
Signed: Don Baldrige
Report Date: 27 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

