



CONSTRUCTION EQUIPMENT

SW1024994 RENTAL-FHI VOLVO A40G 352889 - DIESEL ENGINE



Sample No: VCP425240
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1024994 RENTAL-FHI



SAMPLE INFORMATION

Sample Number	VCP425240	VCP398283	---	---
Sample Date	13 Oct 2023	23 Feb 2023	---	---
Machine Hours	1901	1251	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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 @ 100°C	cSt	█ 12.8	▲ 12.3	---	---
Base Number (BN)	mg KOH/g	█ 8.2	█ 9.2	---	---
Oxidation (PA)	%	72	80	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	---	---
Nitration (PA)	%	70	79	---	---
Sulfation (PA)	%	60	64	---	---
Glycol	%	NEG	█ 0.0	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 8	█ 14	---	---
Sodium	ppm	█ 1	█ <1	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 19	█ 10	---	---
Copper	ppm	█ 49	█ 140	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ 1	█ 2	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 54	█ 48	---	---
Nickel	ppm	█ 8	█ 1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1328	█ 1774	---	---
Magnesium	ppm	█ 677	█ 407	---	---
Zinc	ppm	█ 1179	█ 1139	---	---
Phosphorus	ppm	█ 882	█ 951	---	---
Barium	ppm	█ 10	█ 0	---	---
Boron	ppm	█ 22	█ 43	---	---

Depot: VOLVO6174
Unique No: 10711182
Signed: Wes Davis
Report Date: 25 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

