



CONSTRUCTION EQUIPMENT

RANGO VOLVO A60H 340072 - DIESEL ENGINE



Sample No: VCP395794
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: RANGO



SAMPLE INFORMATION

Sample Number	VCP395794	---	---	---
Sample Date	01 May 2024	---	---	---
Machine Hours	8806	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: JAKE ZAYES
 jzayes@arnoldmachinery.com
 T: (602)414-1900
 F: (602)414-1904



OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
Oxidation (PA)	%	61	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 29	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 9	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 60	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1757	---	---	---
Magnesium	ppm	█ 472	---	---	---
Zinc	ppm	█ 1087	---	---	---
Phosphorus	ppm	█ 988	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 142	---	---	---

Depot: VOLVO6174
Unique No: 11019679
Signed: Don Baldrige
Report Date: 11 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

