



CONSTRUCTION EQUIPMENT

SWA311369 RANGO VOLVO A60H 340046 - DIESEL ENGINE



Sample No: VCP422927
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA311369 RANGO



SAMPLE INFORMATION

Sample Number	VCP422927	---	---	---
Sample Date	21 Jul 2023	---	---	---
Machine Hours	11289	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA CONSTRUCTION EQUIPMENT
613 E STEVENSON RD
OTTAWA, IL
US 61350
Contact: KEVIN SKRTICH
KEVIN.SKRTICH@ALTAEQUIPMENT.COM
T:
F:



OIL CONDITION

Visc @ 100°C	cSt	█ 12.79	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	68	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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 %	%	█ 0.9	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 61	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 5	---	---	---



WEAR METALS

Iron	ppm	█ 52	---	---	---
Copper	ppm	█ 284	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 65	---	---	---
Nickel	ppm	▲ 18	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1328	---	---	---
Magnesium	ppm	█ 979	---	---	---
Zinc	ppm	█ 1313	---	---	---
Phosphorus	ppm	█ 1102	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 6	---	---	---

Depot: VOLVO5055
Unique No: 10589818
Signed: Jonathan Hester
Report Date: 10 Aug 2023



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GRAPHS

