



CONSTRUCTION EQUIPMENT

GILBERT BLACK VOLVO L90H 624683 - DIESEL ENGINE



Sample No: VC426114

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: GILBERT BLACK



SAMPLE INFORMATION

Sample Number	VC426114	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	7195	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	52	---	---	---



CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 23	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 8	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 38	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1554	---	---	---
Magnesium	ppm	█ 638	---	---	---
Zinc	ppm	█ 1195	---	---	---
Phosphorus	ppm	█ 983	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 3	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

Depot: VOLVO0049
Unique No: 10633430
Signed: Sean Felton
Report Date: 08 Sep 2023



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GRAPHS

