



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 19246 VOLVO L120H RL67 (S/N 632516) - DIESEL ENGINE



Sample No: VCP412254
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: 19246



SAMPLE INFORMATION

Sample Number	VCP412254	---	---	---
Sample Date	21 Jul 2023	---	---	---
Machine Hours	8668	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

HILCO TRANSPORT

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	79	---	---	---



CONTAMINATION

Soot %	%	█ 1.3	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 38	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 26	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 65	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1308	---	---	---
Magnesium	ppm	1008	---	---	---
Zinc	ppm	█ 1389	---	---	---
Phosphorus	ppm	█ 1113	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. 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: HILGREVC
Unique No: 10586916
Signed: Don Baldrige
Report Date: 05 Aug 2023



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GRAPHS

