



CONSTRUCTION EQUIPMENT

A1111 VOLVO EC200EL 314115 - DIESEL ENGINE



Sample No: VCP416930
Oil Type: MOBIL 15W40
Job No: A11111



SAMPLE INFORMATION

Sample Number	VCP416930	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	550	---	---	---
Oil Hours	550	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

A-JON CONSTRUCTION CO
 719 OLD MARPLE AVENUE
 SPRINGFIELD, PA
 US 19064
 Contact:



OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 6.4	---	---	---
Oxidation (PA)	%	▲ 49	---	---	---

T: (610)328-7128
 F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. 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 acceptable for the time in service.



CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	▲ 66	---	---	---
Sulfation (PA)	%	▲ 53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 38	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 8	---	---	---



WEAR METALS

Iron	ppm	█ 181	---	---	---
Copper	ppm	█ 22	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	▲ 50	---	---	---
Chromium	ppm	█ 12	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 8	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2783	---	---	---
Magnesium	ppm	█ 82	---	---	---
Zinc	ppm	█ 1325	---	---	---
Phosphorus	ppm	█ 1125	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: AJOSPR
Unique No: 10672656
Signed: Don Baldrige
Report Date: 03 Oct 2023



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GRAPHS

