



CONSTRUCTION EQUIPMENT

25800 VOLVO L220 3456 - DIESEL ENGINE



Sample No: VCP447693
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25800



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP447693	VCP418469	VCP420824	---
Sample Date	07 Jun 2024	12 Jan 2024	15 Jun 2023	---
Machine Hours	3105	2189	1018	---
Oil Hours	0	0	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	■ 12.8	● 11.8	● 11.6	---
Base Number (BN)	mg KOH/g	■ 8.0	■ 6.5	■ 5.6	---
Oxidation (PA)	%	82	88	76	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.2	■ 0.3	■ 0.2	---
Nitration (PA)	%	73	85	71	---
Sulfation (PA)	%	61	65	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.4	---
Silicon	ppm	■ 6	■ 9	▲ 27	---
Sodium	ppm	■ 3	■ 2	■ 3	---
Potassium	ppm	■ 8	■ 2	■ 4	---



WEAR METALS

Iron	ppm	■ 7	■ 12	■ 15	---
Copper	ppm	■ 18	▲ 52	▲ 257	---
Lead	ppm	■ <1	■ 0	■ 0	---
Tin	ppm	■ <1	■ 2	■ 3	---
Aluminum	ppm	■ 1	■ 2	■ 2	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 46	■ 43	■ 56	---
Nickel	ppm	■ <1	■ <1	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ 1	■ 3	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	■ 1852	■ 1687	■ 2043	---
Magnesium	ppm	■ 512	■ 486	■ 277	---
Zinc	ppm	■ 1183	■ 1109	■ 1291	---
Phosphorus	ppm	■ 982	■ 833	■ 1006	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 20	■ 11	■ 58	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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: VOLVO3387
Unique No: 11074836
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

