



CONSTRUCTION EQUIPMENT

X48022 VOLVO EC220 315449 - DIESEL ENGINE



Sample No: VCP439325
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48022



SAMPLE INFORMATION

Sample Number	VCP439325	VCP425194	---	---
Sample Date	18 May 2024	22 Mar 2024	---	---
Machine Hours	1775	1436	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 9.5	---	---
Oxidation (PA)	%	87	92	---	---

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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	68	68	---	---
Sulfation (PA)	%	62	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 15	▲ 24	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 1	█ 1	---	---

WEAR METALS

Iron	ppm	█ 10	█ 12	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 1	█ 1	---	---
Aluminum	ppm	█ 5	● 6	---	---
Chromium	ppm	█ 1	█ 1	---	---
Molybdenum	ppm	█ 48	█ 49	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1676	█ 1826	---	---
Magnesium	ppm	█ 502	█ 518	---	---
Zinc	ppm	█ 1130	█ 1171	---	---
Phosphorus	ppm	█ 919	█ 985	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 54	█ 47	---	---

Depot: CDLHER
Unique No: 11050419
Signed: Wes Davis
Report Date: 30 May 2024



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GRAPHS

