



CONSTRUCTION EQUIPMENT

SWA491958 RENTAL VOLVO DD120C 288141 - DIESEL ENGINE



Sample No: VCP416146
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA491958 RENTAL



SAMPLE INFORMATION

Sample Number	VCP416146	VCP370195	VCP320138	---
Sample Date	23 Feb 2024	30 Mar 2023	15 Sep 2021	---
Machine Hours	500	1917	746	---
Oil Hours	500	0	0	---
Oil Changed	Changed	Not Chngd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 11.4	▲ 10.7	---
Base Number (BN)	mg KOH/g	■ 8.8	■ 8.6	---	---
Oxidation (PA)	%	81	64	77	---

Diagnosis

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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.3	■ 0.2	■ 0.2	---
Nitration (PA)	%	80	65	74	---
Sulfation (PA)	%	57	53	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 3.9	▲ 5.9	▲ 5.7	---
Silicon	ppm	■ 15	■ 13	■ 29	---
Sodium	ppm	■ 4	■ 1	■ 4	---
Potassium	ppm	■ 7	■ 2	■ 25	---



WEAR METALS

Iron	ppm	■ 65	■ 27	■ 90	---
Copper	ppm	■ 4	■ 2	■ 55	---
Lead	ppm	■ 0	■ 0	■ 2	---
Tin	ppm	■ 2	■ <1	■ 4	---
Aluminum	ppm	■ 15	■ 6	▲ 76	---
Chromium	ppm	■ 3	■ 1	■ 11	---
Molybdenum	ppm	■ 51	■ 55	■ 38	---
Nickel	ppm	■ 1	■ 0	■ <1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	■ 1	<1	7	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	■ 1510	■ 1575	■ 1440	---
Magnesium	ppm	■ 485	■ 375	■ 558	---
Zinc	ppm	■ 1132	■ 1097	■ 909	---
Phosphorus	ppm	■ 947	■ 891	745	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 25	■ 46	■ 23	---

Depot: VOLV00142
Unique No: 10903927
Signed: Sean Felton
Report Date: 05 Mar 2024



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GRAPHS

