



CONSTRUCTION EQUIPMENT

23623 VOLVO EC380EL 311791 - DIESEL ENGINE



Sample No: VCP425780
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23623



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP425780	VCP375870	---	---
Sample Date	23 Jun 2023	24 Jun 2022	---	---
Machine Hours	6647	4662	---	---
Oil Hours	1000	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ATTENTION	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	11.9	---	---
Base Number (BN)	mg KOH/g	■ 4.8	■ 7.2	---	---
Oxidation (PA)	%	■ 69	65	---	---

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 75	73	---	---
Sulfation (PA)	%	■ 65	57	---	---
Glycol	%	■ NEG	NEG	---	---
Fuel	%	■ <1.0	■ 3.0	---	---
Silicon	ppm	■ 8	■ 4	---	---
Sodium	ppm	■ 2	■ 1	---	---
Potassium	ppm	■ <1	■ 0	---	---

WEAR METALS

Iron	ppm	■ 9	■ 11	---	---
Copper	ppm	■ 1	■ 2	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 49	■ 60	---	---
Nickel	ppm	■ <1	■ 1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ <1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1701	■ 1064	---	---
Magnesium	ppm	■ 276	■ 927	---	---
Zinc	ppm	■ 1100	■ 1222	---	---
Phosphorus	ppm	■ 877	■ 937	---	---
Barium	ppm	■ 14	■ 0	---	---
Boron	ppm	■ 51	■ 1	---	---

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO3387
Unique No: 10538095
Signed: Jonathan Hester
Report Date: 30 Jun 2023



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GRAPHS

