



CONSTRUCTION EQUIPMENT

24195 VOLVO EC380EL 314027 - DIESEL ENGINE



Sample No: VCP424757
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24195



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP424757	VCP420874	VCP400690	VCP383506
Sample Date	09 Oct 2023	12 Jul 2023	02 Feb 2023	04 Oct 2022
Machine Hours	6529	6393	5724	4996
Oil Hours	0	1000	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.3	■ 12.8	▲ 12.3
Base Number (BN)	mg KOH/g	■ 10.2	■ 9.5	■ 7.6	■ 10.9
Oxidation (PA)	%	78	85	57	90

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	48	73	53	68
Sulfation (PA)	%	60	61	54	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 6	■ 5	■ 6	■ 5
Sodium	ppm	■ 3	■ 2	■ <1	■ <1
Potassium	ppm	■ 2	■ <1	■ 2	■ 2

WEAR METALS

Iron	ppm	■ 3	■ 5	■ 4	■ 7
Copper	ppm	■ 2	■ 3	■ <1	■ <1
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ <1	■ 3
Chromium	ppm	■ 0	■ 0	■ 0	■ 0
Molybdenum	ppm	■ 38	■ 46	■ 84	■ 43
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 1559	■ 1794	■ 1531	■ 1693
Magnesium	ppm	■ 508	■ 534	■ 382	■ 480
Zinc	ppm	■ 1101	■ 1176	■ 1269	■ 1107
Phosphorus	ppm	■ 941	■ 947	■ 1065	■ 911
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 46	■ 44	409	■ 30

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: 10695319
Signed: Don Baldrige
Report Date: 16 Oct 2023



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GRAPHS

