



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/LEMON SPRINGS, NC



VOLVO EC250E 1876 (S/N 310287) - DIESEL ENGI

Sample No: VCP414426

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:



SAMPLE INFORMATION

Sample Number	VCP414426	VCP383523	VCP378527	VCP0000833
Sample Date	18 Jul 2023	09 May 2023	08 Aug 2022	17 Mar 2022
Machine Hours	9538	8999	8508	7942
Oil Hours	0	0	0	7942
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

G S MATERIALS INC

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.5	13.4	13.1
Base Number (BN)	mg KOH/g	8.8	9.8	7.5	11.1
Oxidation (PA)	%	66	80	80	90



CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.2
Nitration (PA)	%	73	70	91	70
Sulfation (PA)	%	53	60	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	7	8
Sodium	ppm	2	2	2	2
Potassium	ppm	0	3	8	3



WEAR METALS

Iron	ppm	9	10	15	8
Copper	ppm	1	1	2	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	3	7	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	66	49	37	48
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1264	1595	2111	1818
Magnesium	ppm	1048	627	146	629
Zinc	ppm	1354	1220	1243	1296
Phosphorus	ppm	1112	1016	1009	1084
Barium	ppm	0	0	0	0
Boron	ppm	3	26	69	37

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.

Depot: GANBURNC
Unique No: 10565418
Signed: Don Baldrige
Report Date: 25 Jul 2023



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GRAPHS

