



CONSTRUCTION EQUIPMENT

ASH VOLVO A60H 350269 - DIESEL ENGINE



Sample No: VCP393186
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: ASH



SAMPLE INFORMATION

Sample Number	VCP393186	VCP393192	VCP401102	VCP402367
Sample Date	20 Jul 2023	13 Jul 2023	15 Jun 2023	22 Mar 2023
Machine Hours	1787	1658	1648	1054
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	SEVERE	ABNORMAL	SEVERE	SEVERE

403 - ASCENDUM MACHINERY INC - FARGO
 3739 38TH ST SW, SUITE E
 FARGO, ND
 US 58104
 Contact: SCOTT HANSON
 scott.hanson@ascendummachinery.com
 T:
 F: (701)356-4072



OIL CONDITION

Visc @ 100°C	cSt	▲ 6.9	▲ 11.9	▲ 6.2	▲ 5.9
Base Number (BN)	mg KOH/g	■ 8.8	■ 9.2	■ 7.4	■ 6.6
Oxidation (PA)	%	■ 49	■ 53	■ 57	■ 71



CONTAMINATION

Soot %	%	■ 0.2	■ 0.1	■ 0.2	■ 0.3
Nitration (PA)	%	■ 63	■ 47	■ 69	■ 78
Sulfation (PA)	%	■ 48	■ 51	■ 53	■ 55
Glycol	%	■ NEG	■ NEG	■ NEG	■ NEG
Fuel	%	■ 28.3	▲ 5.3	■ 37.8	■ 20.0
Silicon	ppm	■ 4	■ 5	■ 2	■ 12
Sodium	ppm	■ 2	■ 3	■ 1	■ 2
Potassium	ppm	■ 0	■ 0	■ <1	■ 0



WEAR METALS

Iron	ppm	■ 5	■ 2	■ 3	■ 14
Copper	ppm	■ 2	■ 2	■ 13	■ 215
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ 1
Aluminum	ppm	■ 2	■ <1	■ 10	■ 0
Chromium	ppm	■ <1	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 55	■ 73	■ 61	■ 32
Nickel	ppm	■ <1	■ 1	■ 0	■ 1
Titanium	ppm	■ 0	■ <1	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	■ 0	■ <1	■ 0	■ 0



ADDITIVES

Calcium	ppm	■ 1065	■ 1401	■ 938	■ 1182
Magnesium	ppm	■ 520	■ 699	■ 435	■ 281
Zinc	ppm	■ 683	■ 883	■ 559	■ 700
Phosphorus	ppm	■ 592	■ 740	■ 500	■ 578
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 123	■ 254	■ 111	■ 25

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: ASCFAR
Unique No: 10565611
Signed: Don Baldrige
Report Date: 26 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

