



CONSTRUCTION EQUIPMENT

24433 VOLVO A40G 352836 - DIESEL ENGINE



Sample No: VCP429040
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24433



SAMPLE INFORMATION

Sample Number	VCP429040	VCP425778	VCP404414	VCP363563
Sample Date	16 Nov 2023	26 May 2023	19 Jan 2023	31 Aug 2022
Machine Hours	5014	3938	3070	2191
Oil Hours	1000	1000	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
 matt.mitcham@ascendummachinery.com
 T:
 F: (843)414-1129



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	12.9	12.3
Base Number (BN)	mg KOH/g	8.7	8.9	8.6	8.1
Oxidation (PA)	%	83	90	86	89

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	75	71	78	92
Sulfation (PA)	%	62	64	65	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.1
Silicon	ppm	5	6	6	9
Sodium	ppm	3	2	3	3
Potassium	ppm	1	2	0	2



WEAR METALS

Iron	ppm	14	12	9	13
Copper	ppm	8	8	▲ 48	▲ 205
Lead	ppm	1	<1	<1	1
Tin	ppm	<1	2	1	2
Aluminum	ppm	2	2	1	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	42	41	46
Nickel	ppm	<1	1	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1701	1789	1555	1618
Magnesium	ppm	528	557	478	473
Zinc	ppm	1142	1243	1027	1069
Phosphorus	ppm	935	1006	837	872
Barium	ppm	0	0	0	0
Boron	ppm	27	35	28	22

Depot: VOLVO3387
Unique No: 10752981
Signed: Wes Davis
Report Date: 22 Nov 2023



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GRAPHS

