



CONSTRUCTION EQUIPMENT

2086 711 MATERIALS VOLVO A45G 352955 - DIESEL ENGINE



Sample No: VCP437828
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2086 711 MATERIALS



SAMPLE INFORMATION

Sample Number	VCP437828	VCP428960	VCP400963	VCP398271
Sample Date	18 Apr 2024	17 Jan 2024	01 May 2023	10 Feb 2023
Machine Hours	3502	3084	2039	1729
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.7	12.6	12.7
Base Number (BN)	mg KOH/g	9.2	8.6	8.8	10.2
Oxidation (PA)	%	80	78	78	82

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	0.3	0.4	0.3	0.2
Nitration (PA)	%	63	74	58	59
Sulfation (PA)	%	60	61	57	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.9	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	6
Sodium	ppm	3	3	3	2
Potassium	ppm	0	0	1	1



WEAR METALS

Iron	ppm	6	9	6	7
Copper	ppm	<1	3	<1	4
Lead	ppm	0	<1	1	0
Tin	ppm	2	<1	1	<1
Aluminum	ppm	2	2	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	35	41	42
Nickel	ppm	3	2	2	2
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1771	1773	1668	1726
Magnesium	ppm	479	575	531	488
Zinc	ppm	1056	1187	1168	1171
Phosphorus	ppm	926	993	972	988
Barium	ppm	0	0	0	<1
Boron	ppm	39	38	44	57

Depot: VOLVO4485
Unique No: 11008812
Signed: Wes Davis
Report Date: 08 May 2024



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GRAPHS

