



CONSTRUCTION EQUIPMENT

1235 INT PAPER W SAC VOLVO L60H 622547 - DIESEL ENGINE



Sample No: VCP442137
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1235 INT PAPER W SAC



SAMPLE INFORMATION

Sample Number	VCP442137	VCP419375	VCP386537	VCP381096
Sample Date	26 Oct 2023	26 May 2023	23 Mar 2023	18 Jan 2023
Machine Hours	5517	4599	4036	3558
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.0	13.9
Base Number (BN)	mg KOH/g	10.7	10.5	10.8	10.1
Oxidation (PA)	%	82	85	71	82

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

Soot %	%	0.3	0.3	1.6	0.4
Nitration (PA)	%	56	60	97	65
Sulfation (PA)	%	62	63	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	5
Sodium	ppm	2	4	3	2
Potassium	ppm	0	1	<1	0



WEAR METALS

Iron	ppm	5	11	8	13
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	4	4	5
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	55	41	47
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1740	2237	1795	1717
Magnesium	ppm	519	681	524	493
Zinc	ppm	1273	1526	1211	1163
Phosphorus	ppm	1011	1271	943	958
Barium	ppm	0	2	0	0
Boron	ppm	40	46	41	65

Depot: VOLVO4485
Unique No: 10736467
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

