



CONSTRUCTION EQUIPMENT

1311 VOLVO L90H 625096 - DIESEL ENGINE



Sample No: VCP441935
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1311



SAMPLE INFORMATION

Sample Number	VCP441935	VCP405843	VCP407272	VCP375078
Sample Date	16 Nov 2023	06 Jul 2023	03 Mar 2023	28 Sep 2022
Machine Hours	9224	8707	8187	7610
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.4	13.8
Base Number (BN)	mg KOH/g	10.1	10.0	10.8	11.9
Oxidation (PA)	%	84	90	85	92

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 %	%	0.3	0.4	0.4	0.4
Nitration (PA)	%	62	65	68	70
Sulfation (PA)	%	62	64	62	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	3	2	2	2
Potassium	ppm	<1	1	1	<1



WEAR METALS

Iron	ppm	3	8	9	7
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	6	7	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	37	41	41	41
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1583	1776	1705	1826
Magnesium	ppm	490	546	490	530
Zinc	ppm	1086	1235	1219	1403
Phosphorus	ppm	910	1014	1016	1169
Barium	ppm	0	0	0	0
Boron	ppm	26	36	31	31

Depot: VOLVO4485
Unique No: 10764765
Signed: Wes Davis
Report Date: 30 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

