



CONSTRUCTION EQUIPMENT

SPM619897 VOLVO L90H 624199 - DIESEL ENGINE



Sample No: VCP414541

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SPM619897



SAMPLE INFORMATION

Sample Number	VCP414541	VCP354490	VCP422174	VCP400985
Sample Date	12 Oct 2023	22 Aug 2023	06 Jun 2023	28 Feb 2023
Machine Hours	9889	9032	9032	8356
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



UNITED SCRAP

1545 S CICERO AVE
CICERO, IL
US 60804

Contact: RON LUCHTENBURG
rluchten@unitedscrap.com

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OIL CONDITION

Visc @ 100°C	cSt	14.4	14.4	14.6	13.8
Base Number (BN)	mg KOH/g	9.7	9.5	9.2	9.2
Oxidation (PA)	%	56	57	61	59



CONTAMINATION

Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	49	55	62	63
Sulfation (PA)	%	50	51	52	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	3	5
Sodium	ppm	3	2	2	1
Potassium	ppm	2	<1	0	0



WEAR METALS

Iron	ppm	11	5	8	7
Copper	ppm	1	2	<1	1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	3	1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	55	63	64	61
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1020	1118	1152	1105
Magnesium	ppm	895	1057	1084	959
Zinc	ppm	1156	1384	1333	1315
Phosphorus	ppm	989	1112	1112	1015
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	<1

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.

Depot: UNICICIL
Unique No: 10712795
Signed: Wes Davis
Report Date: 27 Oct 2023



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GRAPHS

