



CONSTRUCTION EQUIPMENT

SPM554815 VOLVO L90H 624199 - DIESEL ENGINE



Sample No: VCP422174
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM554815



SAMPLE INFORMATION

Sample Number	VCP422174	VCP400985	VCP365860	VCP372568
Sample Date	06 Jun 2023	28 Feb 2023	01 Nov 2022	25 Jul 2022
Machine Hours	9032	8356	7635	7115
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.6	13.8	15.3	13.9
Base Number (BN)	mg KOH/g	9.2	9.2	11.3	10.0
Oxidation (PA)	%	61	59	57	63



CONTAMINATION

Soot %	%	0.3	0.3	0.1	0.2
Nitration (PA)	%	62	63	43	65
Sulfation (PA)	%	52	52	52	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	4	3
Sodium	ppm	2	1	<1	1
Potassium	ppm	0	0	1	<1



WEAR METALS

Iron	ppm	8	7	1	6
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	<1	<1	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	64	61	58	58
Nickel	ppm	0	0	<1	1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1152	1105	1032	1066
Magnesium	ppm	1084	959	892	943
Zinc	ppm	1333	1315	1195	1198
Phosphorus	ppm	1112	1015	991	974
Barium	ppm	0	0	2	0
Boron	ppm	0	<1	1	2

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: 10573984
Signed: Wes Davis
Report Date: 27 Jul 2023



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GRAPHS

