



CONSTRUCTION EQUIPMENT

352399 VOLVO L90H 623168 - DIESEL ENGINE



Sample No: WC353099
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 352399



SAMPLE INFORMATION

Sample Number	WC353099	VCP353048	VCP332717	VCP273796
Sample Date	25 Jan 2023	03 Oct 2022	20 May 2022	04 Nov 2020
Machine Hours	6098	5464	4834	3413
Oil Hours	1000	500	900	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.6	14.0	14.0
Oxidation (PA)	%	84	85	56	65

CONTAMINATION

Soot %	%	0.3	0.6	0	0.4
Nitration (PA)	%	66	69	48	67
Sulfation (PA)	%	67	66	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	4	4
Sodium	ppm	2	2	1	2
Potassium	ppm	0	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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	14	15	4	16
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	6	3	14
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	44	45	55	54
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1784	1739	1029	1147
Magnesium	ppm	534	557	933	888
Zinc	ppm	1148	1127	1156	1206
Phosphorus	ppm	1042	1000	1016	961
Barium	ppm	0	0	0	0
Boron	ppm	37	23	6	5

Depot: VOLVO9652
Unique No: 5526100
Signed: Kevin Marson
Report Date: 02 Feb 2023



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GRAPHS

