



CONSTRUCTION EQUIPMENT

24566 VOLVO L90H 625946 - DIESEL ENGINE



Sample No: VCP420537
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24566



SAMPLE INFORMATION

Sample Number	VCP420537	VCP404621	VCP400701	VCP371908
Sample Date	14 Dec 2023	29 Jun 2023	14 Feb 2023	20 Sep 2022
Machine Hours	1980	1482	948	538
Oil Hours	500	1000	0	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.2	13.0	12.9
Base Number (BN)	mg KOH/g	10.3	10.6	6.8	10.9
Oxidation (PA)	%	82	82	68	76

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.1	0.2
Nitration (PA)	%	63	68	86	64
Sulfation (PA)	%	60	61	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	13
Sodium	ppm	1	3	3	2
Potassium	ppm	<1	0	0	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.

WEAR METALS

Iron	ppm	14	20	17	33
Copper	ppm	1	1	2	8
Lead	ppm	0	0	<1	1
Tin	ppm	<1	1	1	2
Aluminum	ppm	7	8	6	35
Chromium	ppm	2	2	2	7
Molybdenum	ppm	40	42	45	38
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1676	1763	1647	1369
Magnesium	ppm	544	529	543	591
Zinc	ppm	1164	1112	1156	1067
Phosphorus	ppm	916	931	939	900
Barium	ppm	0	0	0	0
Boron	ppm	36	38	43	34

Depot: VOLVO3387
Unique No: 10792827
Signed: Wes Davis
Report Date: 19 Dec 2023



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GRAPHS

