



CONSTRUCTION EQUIPMENT

SWO066237 IAA VOLVO L90H 624584 - DIESEL ENGINE



Sample No: VCP415132
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO066237 IAA



SAMPLE INFORMATION

Sample Number	VCP415132	VCP408665	VCP376427	VCP373123
Sample Date	26 Sep 2023	06 Jun 2023	27 Jan 2023	06 Sep 2022
Machine Hours	6938	6451	5953	5423
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



COWIN EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.4	13.6
Base Number (BN)	mg KOH/g	10.5	10.4	10.4	10.7
Oxidation (PA)	%	80	75	80	85



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	53	64	58	59
Sulfation (PA)	%	59	58	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	2	0	1	<1
Potassium	ppm	0	<1	0	2



WEAR METALS

Iron	ppm	4	9	5	4
Copper	ppm	<1	<1	<1	6
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	<1	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	45	46	43
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1713	1663	1737	1643
Magnesium	ppm	529	498	510	449
Zinc	ppm	1034	957	977	936
Phosphorus	ppm	843	797	813	767
Barium	ppm	0	0	0	0
Boron	ppm	44	49	48	45

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: VOLVO8247
Unique No: 10674119
Signed: Wes Davis
Report Date: 04 Oct 2023



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GRAPHS

