



CONSTRUCTION EQUIPMENT

24434 VOLVO L350H 1178 - DIESEL ENGINE



Sample No: VCP429041
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24434



SAMPLE INFORMATION

Sample Number	VCP429041	VCP404329	VCP423591	VCP367563
Sample Date	22 Nov 2023	10 Jul 2023	31 Mar 2023	28 Nov 2022
Machine Hours	6074	4999	4261	3686
Oil Hours	1000	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	11.4	12.9	12.5
Base Number (BN)	mg KOH/g	8.4	10.6	8.6	7.0
Oxidation (PA)	%	85	63	90	104

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	0.4	0.8	1.3
Nitration (PA)	%	75	57	78	100
Sulfation (PA)	%	63	57	69	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.3	<1.0	<1.0
Silicon	ppm	7	7	7	9
Sodium	ppm	0	1	3	5
Potassium	ppm	10	3	7	12

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	13	7	21	31
Copper	ppm	9	5	32	37
Lead	ppm	1	<1	2	4
Tin	ppm	<1	<1	2	3
Aluminum	ppm	3	3	4	5
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	41	29	39	41
Nickel	ppm	2	2	2	2
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1662	2338	1565	1653
Magnesium	ppm	468	377	458	486
Zinc	ppm	1038	1185	1045	978
Phosphorus	ppm	855	952	826	782
Barium	ppm	0	0	0	0
Boron	ppm	16	45	24	12

Depot: VOLVO3387
Unique No: 10766827
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

