



CONSTRUCTION EQUIPMENT

25270 VOLVO L70H 624322 - DIESEL ENGINE



Sample No: VCP408864
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25270



SAMPLE INFORMATION

Sample Number	VCP408864	VCP429017	VCP426916	VCP399948
Sample Date	21 Mar 2024	08 Dec 2023	10 Aug 2023	03 Apr 2023
Machine Hours	6082	5313	4406	3409
Oil Hours	0	1000	0	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	13.0	13.1
Base Number (BN)	mg KOH/g	10.1	9.9	9.8	10.0
Oxidation (PA)	%	83	84	82	86

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	63	67	69	68
Sulfation (PA)	%	60	60	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	6	10
Sodium	ppm	3	3	3	5
Potassium	ppm	2	2	<1	1



WEAR METALS

Iron	ppm	8	13	12	21
Copper	ppm	1	2	2	4
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	1	<1	1
Aluminum	ppm	3	4	3	7
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	42	46	42	68
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1701	1764	1825	2766
Magnesium	ppm	506	587	544	840
Zinc	ppm	1152	1227	1152	1860
Phosphorus	ppm	972	972	947	1498
Barium	ppm	0	11	0	0
Boron	ppm	42	39	34	67

Depot: VOLVO3387
Unique No: 10943218
Signed: Wes Davis
Report Date: 27 Mar 2024



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GRAPHS

