



CONSTRUCTION EQUIPMENT

SWO-071951 VOLVO L70H 624496 - DIESEL ENGINE



Sample No: VCP450984
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071951



SAMPLE INFORMATION

Sample Number	VCP450984	VCP446746	VCP389330	VCP380964
Sample Date	16 May 2024	06 Feb 2024	18 Aug 2023	20 Dec 2022
Machine Hours	2440	1950	1443	937
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	12.8	12.5
Base Number (BN)	mg KOH/g	9.8	9.6	9.9	10.3
Oxidation (PA)	%	76	78	78	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.3
Nitration (PA)	%	57	58	55	75
Sulfation (PA)	%	59	59	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	8	15
Sodium	ppm	1	0	<1	4
Potassium	ppm	2	3	2	2



WEAR METALS

Iron	ppm	57	47	52	91
Copper	ppm	2	2	2	8
Lead	ppm	<1	0	0	1
Tin	ppm	1	<1	<1	3
Aluminum	ppm	5	6	6	46
Chromium	ppm	2	1	2	8
Molybdenum	ppm	45	47	44	44
Nickel	ppm	<1	0	0	1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	2	<1	1	4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1688	1571	1741	1529
Magnesium	ppm	500	518	512	569
Zinc	ppm	1086	902	1162	1068
Phosphorus	ppm	939	843	971	877
Barium	ppm	0	25	2	0
Boron	ppm	44	46	44	44

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: SAIBIR
Unique No: 11035279
Signed: Sean Felton
Report Date: 21 May 2024



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GRAPHS

