



CONSTRUCTION EQUIPMENT

X59076 VOLVO L220H 003442 - DIESEL ENGINE



Sample No: VCP426441
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59076



SAMPLE INFORMATION

Sample Number	VCP426441	VCP426047	VCP426051	VCP367482
Sample Date	09 Jan 2024	15 Nov 2023	21 Sep 2023	28 Apr 2023
Machine Hours	5413	4799	4161	2537
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	12.5	12.9	12.9	12.9
Base Number (BN)	mg KOH/g	9.7	9.7	9.2	8.4
Oxidation (PA)	%	82	83	79	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	59	57	53	49
Sulfation (PA)	%	61	61	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	2	0	5	1
Potassium	ppm	2	3	1	0



WEAR METALS

Iron	ppm	2	6	6	5
Copper	ppm	2	1	2	1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	36	42	43	44
Nickel	ppm	2	1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1588	1665	1791	1782
Magnesium	ppm	516	497	542	565
Zinc	ppm	1118	1118	1175	1242
Phosphorus	ppm	901	917	993	988
Barium	ppm	0	0	0	0
Boron	ppm	18	36	32	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: SCOSAI
Unique No: 10830442
Signed: Wes Davis
Report Date: 12 Jan 2024



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GRAPHS

