



CONSTRUCTION EQUIPMENT

X59249 VOLVO L220H 003442 - DIESEL ENGINE



Sample No: VCP442713
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59249



SAMPLE INFORMATION

Sample Number	VCP442713	VCP426441	VCP426047	VCP426051
Sample Date	19 Feb 2024	09 Jan 2024	15 Nov 2023	21 Sep 2023
Machine Hours	5968	5413	4799	4161
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.5	12.9	12.9
Base Number (BN)	mg KOH/g	10.3	9.7	9.7	9.2
Oxidation (PA)	%	82	82	83	79

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	56	59	57	53
Sulfation (PA)	%	61	61	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	2	2	0	5
Potassium	ppm	0	2	3	1

WEAR METALS

Iron	ppm	3	2	6	6
Copper	ppm	1	2	1	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	2	1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	39	36	42	43
Nickel	ppm	0	2	1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1730	1588	1665	1791
Magnesium	ppm	507	516	497	542
Zinc	ppm	1063	1118	1118	1175
Phosphorus	ppm	926	901	917	993
Barium	ppm	0	0	0	0
Boron	ppm	36	18	36	32

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: 10899519
Signed: Wes Davis
Report Date: 28 Feb 2024



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GRAPHS

