



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2280 - DIESEL ENGINE



Sample No: VCP441803
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP441803	VCP382206	VCP440139	VCP429831
Sample Date	03 May 2024	26 Mar 2024	26 Feb 2024	26 Jan 2024
Machine Hours	23474	23153	22698	22180
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.1	12.4
Base Number (BN)	mg KOH/g	9.6	9.0	9.6	9.4
Oxidation (PA)	%	53	55	55	55

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	46	51	50	53
Sulfation (PA)	%	50	50	50	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	4	1	5	3
Sodium	ppm	0	<1	2	0
Potassium	ppm	2	0	1	<1

WEAR METALS

Iron	ppm	1	0	4	4
Copper	ppm	<1	0	1	2
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	2	0	3	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	56	70	96	66
Nickel	ppm	<1	0	0	1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	0	0	1
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	1192	1218	1670	1104
Magnesium	ppm	824	992	1462	1010
Zinc	ppm	1217	1285	1937	1294
Phosphorus	ppm	1029	1128	1617	1037
Barium	ppm	0	0	0	0
Boron	ppm	9	13	18	6

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: VOLVO1835
Unique No: 1103238
Signed: Wes Davis
Report Date: 16 May 2024



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GRAPHS

