



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2279 - DIESEL ENGINE



Sample No: VCP400163
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP400163	VCP382210	VCP393757	VCP382522
Sample Date	18 Oct 2023	28 Aug 2023	20 Mar 2023	15 Feb 2023
Machine Hours	20348	19900	19667	19093
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	12.7	12.8
Base Number (BN)	mg KOH/g	9.0	9.4	9.6	9.3
Oxidation (PA)	%	61	55	57	58



CONTAMINATION

Soot %	%	0.5	0.2	0.5	0.4
Nitration (PA)	%	55	50	60	61
Sulfation (PA)	%	54	52	54	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	4	3
Sodium	ppm	2	2	2	0
Potassium	ppm	0	<1	<1	2



WEAR METALS

Iron	ppm	4	4	7	6
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	2	6	10
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	49	70	63	69
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1122	1210	1112	1140
Magnesium	ppm	750	957	901	751
Zinc	ppm	1010	1275	1183	1049
Phosphorus	ppm	925	1037	997	882
Barium	ppm	4	0	2	0
Boron	ppm	19	22	6	21

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: 10715325
Signed: Wes Davis
Report Date: 31 Oct 2023



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GRAPHS

