



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3546 - DIESEL ENGINE



Sample No: VCP429824
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP429824	VCP401003	VCP429832	VCP400071
Sample Date	31 Jan 2024	26 Dec 2023	30 Nov 2023	10 Oct 2023
Machine Hours	1987	1483	1082	442
Oil Hours	0	0	0	442
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

ARNOLD MACHINERY COMPANY
 464 WASHINGTON STREET S
 TWIN FALLS, ID
 US 83301
 Contact: JANA E HYMAS
 jhymas@arnoldmachinery.com
 T: (208)733-1715
 F: (775)356-7152



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.6	12.4	11.2
Base Number (BN)	mg KOH/g	8.3	9.1	7.5	5.9
Oxidation (PA)	%	57	57	64	60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	58	53	62	75
Sulfation (PA)	%	51	52	55	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	6	4	11	24
Sodium	ppm	0	<1	5	2
Potassium	ppm	1	0	4	2



WEAR METALS

Iron	ppm	6	3	84	12
Copper	ppm	6	19	11	462
Lead	ppm	<1	0	0	5
Tin	ppm	2	1	<1	2
Aluminum	ppm	3	<1	12	2
Chromium	ppm	<1	0	2	0
Molybdenum	ppm	77	64	64	84
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	<1	2	2
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1147	1105	1167	2157
Magnesium	ppm	954	948	783	14
Zinc	ppm	1238	1228	1114	1209
Phosphorus	ppm	986	1017	937	984
Barium	ppm	0	0	0	0
Boron	ppm	18	7	17	43

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: 10869637
Signed: Wes Davis
Report Date: 07 Feb 2024



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GRAPHS

