



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2279 - DIESEL ENGINE



Sample No: VCP440842
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP440842	VCP401918	VCP400163	VCP382210
Sample Date	05 Feb 2024	14 Dec 2023	18 Oct 2023	28 Aug 2023
Machine Hours	21382	20856	20348	19900
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	12.5	12.9	13.2	13.1
Base Number (BN)	mg KOH/g	8.7	9.1	9.0	9.4
Oxidation (PA)	%	56	58	61	55



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.5	0.5	0.2
Nitration (PA)	%	61	58	55	50
Sulfation (PA)	%	52	53	54	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	7	4
Sodium	ppm	1	1	2	2
Potassium	ppm	0	1	0	<1



WEAR METALS

Iron	ppm	5	4	4	4
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	5	5	4	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	65	65	49	70
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1168	1051	1122	1210
Magnesium	ppm	921	880	750	957
Zinc	ppm	1175	1176	1010	1275
Phosphorus	ppm	1005	990	925	1037
Barium	ppm	0	0	4	0
Boron	ppm	9	12	19	22

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: 10899516
Signed: Wes Davis
Report Date: 28 Feb 2024



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VOLVO GRAPHS

