



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L180H 4929 - DIESEL ENGINE



Sample No: VCP368334
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP368334	VCP382209	VCP401001	VCP384996
Sample Date	22 Nov 2023	26 Sep 2023	19 Apr 2023	10 Feb 2023
Machine Hours	11038	10607	10202	9659
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	12.1	12.2
Base Number (BN)	mg KOH/g	9.3	9.1	8.7	9.4
Oxidation (PA)	%	58	60	59	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	55	59	61	63
Sulfation (PA)	%	52	53	52	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	2	2	10
Sodium	ppm	6	3	1	0
Potassium	ppm	4	2	0	1



WEAR METALS

Iron	ppm	10	<1	3	11
Copper	ppm	11	4	0	62
Lead	ppm	0	<1	0	1
Tin	ppm	<1	<1	0	2
Aluminum	ppm	5	<1	<1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	67	65	61	47
Nickel	ppm	0	0	0	3
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1192	1169	1052	1671
Magnesium	ppm	834	1029	857	417
Zinc	ppm	1165	1332	1146	1042
Phosphorus	ppm	975	1070	909	900
Barium	ppm	0	0	0	0
Boron	ppm	24	4	10	44

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: 10777241
Signed: Wes Davis
Report Date: 08 Dec 2023



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VOLVO GRAPHS

