



CONSTRUCTION EQUIPMENT

SW1027198 HYDRO ALUM VOLVO L60H 62256 - DIESEL ENGINE



Sample No: VCP427153
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1027198 HYDRO ALUM



SAMPLE INFORMATION

Sample Number	VCP427153	VCP417381	VCP425631	VCP381513
Sample Date	06 Dec 2023	14 Aug 2023	05 Jun 2023	13 Apr 2023
Machine Hours	6012	5326	4943	4627
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.6	13.6	14.2
Base Number (BN)	mg KOH/g	8.8	9.2	9.8	8.7
Oxidation (PA)	%	67	69	67	63

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.6	0.3	0.5
Nitration (PA)	%	68	71	53	68
Sulfation (PA)	%	55	57	56	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	10	4	5
Sodium	ppm	3	2	<1	1
Potassium	ppm	<1	2	0	1

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.

WEAR METALS

Iron	ppm	9	11	6	12
Copper	ppm	2	2	0	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	4	3	3
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	55	59	55	61
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1195	1314	1172	1165
Magnesium	ppm	915	904	845	1015
Zinc	ppm	1325	1283	1209	1337
Phosphorus	ppm	1080	1055	998	1108
Barium	ppm	0	0	0	0
Boron	ppm	7	16	17	<1

Depot: VOLVO6174
Unique No: 10781927
Signed: Wes Davis
Report Date: 13 Dec 2023



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GRAPHS

