



CONSTRUCTION EQUIPMENT

SW1032224 YAVAPI VOLVO L70H 623687 - DIESEL ENGINE



Sample No: VCP442955
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW1032224 YAVAPI



SAMPLE INFORMATION

Sample Number	VCP442955	VCP417467	VCP379771	VCP390391
Sample Date	29 Mar 2024	28 Jul 2023	22 Feb 2023	15 Nov 2022
Machine Hours	9094	8550	8033	7725
Oil Hours	0	0	0	224
Oil Changed	Changed	Changed	Changed	Not Changd
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	13.4	13.8	13.7	14.0
Base Number (BN)	mg KOH/g	8.9	9.6	10.3	11.2
Oxidation (PA)	%	69	63	61	61

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.4	0.2
Nitration (PA)	%	74	62	68	52
Sulfation (PA)	%	56	53	53	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	4
Sodium	ppm	2	0	1	2
Potassium	ppm	0	2	2	0



WEAR METALS

Iron	ppm	12	14	22	9
Copper	ppm	<1	3	10	9
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	5	9	3
Chromium	ppm	0	1	2	<1
Molybdenum	ppm	58	55	59	56
Nickel	ppm	0	<1	2	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1408	1395	1397	1365
Magnesium	ppm	972	765	845	855
Zinc	ppm	1337	1215	1310	1277
Phosphorus	ppm	1154	1015	1089	1049
Barium	ppm	0	0	0	0
Boron	ppm	7	23	12	10

Depot: VOLVO6174
Unique No: 10977087
Signed: Wes Davis
Report Date: 15 Apr 2024



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VOLVO GRAPHS

