



CONSTRUCTION EQUIPMENT

SW1026123 EWING IRR I VOLVO L60H 622769 - DIESEL ENGINE



Sample No: VCP441008
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1026123 EWING IRR I



SAMPLE INFORMATION

Sample Number	VCP441008	VCP406949	VCP403613	---
Sample Date	03 Nov 2023	30 Jun 2023	28 Mar 2023	---
Machine Hours	2934	2163	1507	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	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	13.2	13.9	14.6	---
Base Number (BN)	mg KOH/g	10.4	9.6	7.2	---
Oxidation (PA)	%	80	67	52	---



CONTAMINATION

Soot %	%	0.4	0.3	0.2	---
Nitration (PA)	%	61	58	71	---
Sulfation (PA)	%	60	55	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	7	6	---
Sodium	ppm	2	2	2	---
Potassium	ppm	<1	0	<1	---



WEAR METALS

Iron	ppm	▲ 152	▲ 116	52	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	2	3	---
Chromium	ppm	2	2	1	---
Molybdenum	ppm	42	58	94	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	2	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1671	1330	2347	---
Magnesium	ppm	573	785	35	---
Zinc	ppm	1225	1208	1324	---
Phosphorus	ppm	970	989	1111	---
Barium	ppm	0	0	0	---
Boron	ppm	36	20	72	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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: VOLVO6174
Unique No: 10736453
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

