



CONSTRUCTION EQUIPMENT

SW-31652-2 IAA OGDEN VOLVO L90H 626380 - DIESEL ENGINE



Sample No: VCP442313
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-31652-2 IAA OGDEN



SAMPLE INFORMATION

Sample Number	VCP442313	VCP435860	VCP414375	VCP400938
Sample Date	20 Mar 2024	13 Dec 2023	29 Aug 2023	01 May 2023
Machine Hours	2888	2317	1722	1040
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
 SALT LAKE CITY, UT
 US 84119
 Contact: TONY PAYAN
 tpayan@arnoldmachinery.com
 T: (801)972-4000
 F: (801)975-9434



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.6	12.1	13.3
Base Number (BN)	mg KOH/g	8.4	9.3	9.6	8.7
Oxidation (PA)	%	52	58	63	58



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	58	56	58	50
Sulfation (PA)	%	49	53	55	48
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.2	<1.0
Silicon	ppm	3	4	5	5
Sodium	ppm	3	1	2	<1
Potassium	ppm	1	1	<1	<1



WEAR METALS

Iron	ppm	8	9	15	13
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	1	1	1
Aluminum	ppm	2	3	3	3
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	52	63	59	61
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1290	1039	1170	1275
Magnesium	ppm	779	929	981	939
Zinc	ppm	1231	1235	1255	1210
Phosphorus	ppm	843	1019	992	1028
Barium	ppm	0	0	0	0
Boron	ppm	12	6	3	15

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: VOLVO8770
Unique No: 10949735
Signed: Don Baldrige
Report Date: 29 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

