



CONSTRUCTION EQUIPMENT

SW-23022-2 CMC ROCK VOLVO L150H 7043 - DIESEL ENGINE



Sample No: VCP414374
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-23022-2 CMC ROCK



SAMPLE INFORMATION

Sample Number	VCP414374	VCP400956	VCP382607	VCP337846
Sample Date	17 Aug 2023	15 May 2023	21 Dec 2022	29 Aug 2022
Machine Hours	2491	2027	1577	1218
Oil Hours	500	500	360	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.8	13.5
Base Number (BN)	mg KOH/g	9.3	9.2	9.8	8.8
Oxidation (PA)	%	57	58	61	70

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

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	49	54	56	66
Sulfation (PA)	%	52	53	55	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	2	2	7
Sodium	ppm	8	2	1	2
Potassium	ppm	4	<1	<1	0



WEAR METALS

Iron	ppm	4	4	0	6
Copper	ppm	2	8	9	53
Lead	ppm	1	<1	<1	0
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	61	60	61	53
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1165	1108	1174	1395
Magnesium	ppm	939	976	960	683
Zinc	ppm	1203	1308	1265	1201
Phosphorus	ppm	1050	1012	1018	999
Barium	ppm	0	0	0	1
Boron	ppm	2	<1	5	37

Depot: VOLVO8770
Unique No: 10617196
Signed: Doug Bogart
Report Date: 24 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

