



CONSTRUCTION EQUIPMENT

579450 DIPRO VOLVO L220H 3352 - DIESEL ENGINE



Sample No: VCP416245
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579450 DIPRO



SAMPLE INFORMATION

Sample Number	VCP416245	VCP407919	VCP411188	VCP421767
Sample Date	11 Jul 2023	02 Jun 2023	27 Apr 2023	21 Mar 2023
Machine Hours	5801	5245	4636	4140
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
Contact: PAUL CONZ
paul.conz@altg.com
T: (313)348-8861
F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	█ 14.0	█ 13.8	█ 14.5
Base Number (BN)	mg KOH/g	█ 9.0	█ 9.3	█ 8.3	█ 9.9
Oxidation (PA)	%	█ 56	█ 58	█ 54	█ 54



CONTAMINATION

Soot %	%	█ 0.2	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	█ 53	█ 53	█ 48	█ 47
Sulfation (PA)	%	█ 51	█ 53	█ 46	█ 50
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ 3	█ 3	█ 2	█ 8
Sodium	ppm	█ 2	█ <1	█ <1	█ 2
Potassium	ppm	█ 0	█ 0	█ <1	█ 26



WEAR METALS

Iron	ppm	█ 4	█ 6	█ 3	▲ 93
Copper	ppm	█ 1	█ 1	█ 0	█ 3
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ <1	█ <1	█ 0	█ <1
Aluminum	ppm	█ <1	█ <1	█ <1	▲ 18
Chromium	ppm	█ 0	█ <1	█ 0	█ 2
Molybdenum	ppm	█ 61	█ 57	█ 63	█ 49
Nickel	ppm	█ 0	█ 0	█ 0	█ <1
Titanium	ppm	<1	<1	0	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ 1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	█ 1117	█ 1052	█ 1137	█ 1739
Magnesium	ppm	█ 1032	█ 973	█ 1098	█ 525
Zinc	ppm	█ 1283	█ 1232	█ 1404	█ 977
Phosphorus	ppm	█ 1053	█ 981	█ 1100	█ 761
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 0	█ 0	█ 0	█ 25

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: VOLVO2990
Unique No: 10565405
Signed: Don Baldrige
Report Date: 25 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

