



CONSTRUCTION EQUIPMENT

731174 VOLVO L220H 3352 - DIESEL ENGINE



Sample No: VCP432981
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 731174



SAMPLE INFORMATION

Sample Number	VCP432981	VCP453519	VCP444147	VCP452285
Sample Date	27 Jun 2024	01 May 2024	05 Mar 2024	24 Jan 2024
Machine Hours	9590	9182	8740	8210
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL ELZERMAN
 paul.elzerman@altaequipment.com
 T: (248)356-5200
 F: (248)356-2029

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.2	13.3
Base Number (BN)	mg KOH/g	8.7	9.4	9.4	9.1
Oxidation (PA)	%	55	57	58	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	53	56	55
Sulfation (PA)	%	50	50	50	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	6	4	2
Sodium	ppm	1	3	<1	0
Potassium	ppm	3	4	2	2

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.

WEAR METALS

Iron	ppm	3	6	4	3
Copper	ppm	1	3	2	<1
Lead	ppm	<1	3	<1	0
Tin	ppm	<1	3	<1	0
Aluminum	ppm	2	4	2	2
Chromium	ppm	0	2	<1	<1
Molybdenum	ppm	62	61	64	64
Nickel	ppm	0	2	<1	0
Titanium	ppm	0	2	<1	0
Silver	ppm	0	3	<1	0
Manganese	ppm	0	2	<1	0
Vanadium	ppm	0	2	<1	0

ADDITIVES

Calcium	ppm	1203	1074	1154	1069
Magnesium	ppm	793	943	1044	1015
Zinc	ppm	1292	1206	1334	1243
Phosphorus	ppm	1118	1006	1188	922
Barium	ppm	0	1	0	5
Boron	ppm	27	2	1	<1

Depot: VOLVO2990
Unique No: 1113268
Signed: Sean Felton
Report Date: 09 Jul 2024



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GRAPHS

