



CONSTRUCTION EQUIPMENT

SWA53217 VOLVO A45G 352244 - DIESEL ENGINE



Sample No: VCP397896
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA532217



SAMPLE INFORMATION

Sample Number	VCP397896	VCP454105	VCP0007640	VCP289385
Sample Date	26 Apr 2024	04 Jan 2024	23 May 2023	28 Sep 2020
Machine Hours	6400	6394	6193	1348
Oil Hours	0	0	6193	0
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	15.0	12.5	12.4	12.6
Base Number (BN)	mg KOH/g	11.0	9.8	7.5	---
Oxidation (PA)	%	74	74	62	50



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.2	0.2
Nitration (PA)	%	42	58	63	68
Sulfation (PA)	%	57	58	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.7	<1.0
Silicon	ppm	8	6	8	7
Sodium	ppm	2	0	8	2
Potassium	ppm	<1	1	2	1



WEAR METALS

Iron	ppm	2	7	5	10
Copper	ppm	5	9	2	360
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	<1	2	2	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	42	47	84	33
Nickel	ppm	0	2	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1714	1632	1589	2076
Magnesium	ppm	526	509	529	182
Zinc	ppm	1174	1109	1120	1025
Phosphorus	ppm	962	894	914	827
Barium	ppm	0	8	0	<1
Boron	ppm	67	76	287	47

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: 11003234
Signed: Wes Davis
Report Date: 29 Apr 2024



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GRAPHS

