



CONSTRUCTION EQUIPMENT

VOLVO A40G 352410 - DIESEL ENGINE



Sample No: VCP424773
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP424773	VCP315558	VCP328934	VCP305186
Sample Date	09 Aug 2023	19 Dec 2021	30 Sep 2021	02 Mar 2021
Machine Hours	3913	2502	2118	1327
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.9	12.7
Base Number (BN)	mg KOH/g	9.6	10.6	---	---
Oxidation (PA)	%	84	83	86	80



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.1
Nitration (PA)	%	68	64	78	55
Sulfation (PA)	%	62	63	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	6
Sodium	ppm	2	<1	3	0
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	9	6	8	5
Copper	ppm	6	3	10	▲ 33
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	<1	1	<1
Aluminum	ppm	4	0	3	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	53	43	42
Nickel	ppm	2	<1	1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1698	2015	1722	1820
Magnesium	ppm	545	572	513	482
Zinc	ppm	1157	1151	1105	1107
Phosphorus	ppm	940	1144	960	1037
Barium	ppm	0	<1	0	0
Boron	ppm	35	45	27	53

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: VOLVO0090
Unique No: 10605796
Signed: Wes Davis
Report Date: 17 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

