



CONSTRUCTION EQUIPMENT

VOLVO EW160E 323454 - DIESEL ENGINE



Sample No: VCP416286
Oil Type: DIESEL ENGINE OIL SAE 15W30
Job No:



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP416286	VCP396944	VCP353545	---
Sample Date	21 Aug 2023	14 Feb 2023	23 Jun 2022	---
Machine Hours	4967	4094	2634	---
Oil Hours	0	500	1500	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	12.7	---
Base Number (BN)	mg KOH/g	8.1	10.3	6.7	---
Oxidation (PA)	%	59	82	58	---



CONTAMINATION

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	61	63	74	---
Sulfation (PA)	%	50	61	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	19	6	---
Sodium	ppm	3	3	2	---
Potassium	ppm	4	7	<1	---



WEAR METALS

Iron	ppm	4	11	9	---
Copper	ppm	<1	6	4	---
Lead	ppm	<1	0	<1	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	2	3	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	60	43	59	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1316	1764	1848	---
Magnesium	ppm	724	473	283	---
Zinc	ppm	1201	1151	1142	---
Phosphorus	ppm	982	946	925	---
Barium	ppm	0	0	0	---
Boron	ppm	59	35	39	---

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: VOLVO0093
Unique No: 10616558
Signed: Wes Davis
Report Date: 23 Aug 2023



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GRAPHS

