



CONSTRUCTION EQUIPMENT

VOLVO EC220EL 314469 - DIESEL ENGINE



Sample No: VCP425015
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP425015	VCP354461	---	---
Sample Date	15 Aug 2023	07 Jul 2022	---	---
Machine Hours	931	334	---	---
Oil Hours	500	334	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.5	---	---
Base Number (BN)	mg KOH/g	8.7	7.7	---	---
Oxidation (PA)	%	53	43	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.



CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	43	66	---	---
Sulfation (PA)	%	48	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	15	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	4	---	---



WEAR METALS

Iron	ppm	5	20	---	---
Copper	ppm	<1	8	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	0	4	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	62	3	---	---
Nickel	ppm	0	4	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1897	2307	---	---
Magnesium	ppm	423	64	---	---
Zinc	ppm	1281	1071	---	---
Phosphorus	ppm	1064	912	---	---
Barium	ppm	0	0	---	---
Boron	ppm	4	3	---	---

Depot: VOLVO0093
Unique No: 10609105
Signed: Wes Davis
Report Date: 21 Aug 2023



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GRAPHS

