



CONSTRUCTION EQUIPMENT

SWA296490 ALL CO REC VOLVO EC140E 314542 - DIESEL ENGINE



Sample No: VCP427129
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA296490 ALL CO REC



SAMPLE INFORMATION

Sample Number	VCP427129	VCP369944	VCP318475	---
Sample Date	27 Jun 2023	02 Dec 2022	31 Mar 2022	---
Machine Hours	2063	1011	430	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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	13.1	13.1	---
Base Number (BN)	mg KOH/g	8.8	11.5	8.1	---
Oxidation (PA)	%	88	85	48	---

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.



CONTAMINATION

Soot %	%	0.3	0.2	0.2	---
Nitration (PA)	%	78	67	64	---
Sulfation (PA)	%	62	64	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	6	24	---
Sodium	ppm	3	1	2	---
Potassium	ppm	2	2	5	---



WEAR METALS

Iron	ppm	22	8	70	---
Copper	ppm	4	<1	15	---
Lead	ppm	0	2	<1	---
Tin	ppm	2	<1	2	---
Aluminum	ppm	6	3	▲ 35	---
Chromium	ppm	2	<1	6	---
Molybdenum	ppm	52	46	6	---
Nickel	ppm	<1	<1	5	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	5	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1865	1832	2387	---
Magnesium	ppm	484	500	118	---
Zinc	ppm	1211	1019	1138	---
Phosphorus	ppm	969	810	1003	---
Barium	ppm	<1	0	0	---
Boron	ppm	52	56	10	---

Depot: VOLVO0093
Unique No: 10546812
Signed: Wes Davis
Report Date: 06 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

