



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO ECR145EL 315117 - DIESEL ENGINE



Sample No: VCP415938
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP415938	VCP390725	VCP374616	VCP351180
Sample Date	13 Jun 2023	04 Nov 2022	10 Jun 2022	12 Jan 2022
Machine Hours	2978	2053	1521	1043
Oil Hours	0	500	1500	300
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	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	12.6	13.2	12.7	13.4
Base Number (BN)	mg KOH/g	10.4	12.2	12.0	12.0
Oxidation (PA)	%	84	88	81	84

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	0.3	0.2	0.2
Nitration (PA)	%	72	67	69	62
Sulfation (PA)	%	61	66	61	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	9
Sodium	ppm	2	0	2	2
Potassium	ppm	2	0	<1	0



WEAR METALS

Iron	ppm	6	10	13	10
Copper	ppm	3	2	2	2
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	1	1
Aluminum	ppm	6	5	5	4
Chromium	ppm	0	1	1	1
Molybdenum	ppm	55	42	45	35
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1961	1736	1699	1800
Magnesium	ppm	596	497	454	448
Zinc	ppm	1303	1107	1129	1006
Phosphorus	ppm	1093	911	928	855
Barium	ppm	12	0	0	0
Boron	ppm	34	35	36	46

Depot: VOLVO0093
Unique No: 10551653
Signed: Wes Davis
Report Date: 12 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

