



CONSTRUCTION EQUIPMENT

297630 VOLVO EC480EL 3 10354 - DIESEL ENGINE



Sample No: VCP427028
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 297630



SAMPLE INFORMATION

Sample Number	VCP427028	VCP384846	VCP314294	VCP271802
Sample Date	28 Jun 2023	29 Sep 2022	04 May 2021	06 Oct 2020
Machine Hours	6940	6700	4933	4515
Oil Hours	0	0	500	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

SENECA MEADOWS
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 US
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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.3	12.8	13.3
Base Number (BN)	mg KOH/g	7.6	11.6	---	---
Oxidation (PA)	%	71	80	76	77

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	61	58	63	82
Sulfation (PA)	%	57	62	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	<1.0
Silicon	ppm	4	7	6	4
Sodium	ppm	2	1	2	3
Potassium	ppm	6	0	3	6

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	5	3	4	5
Copper	ppm	1	<1	2	2
Lead	ppm	0	0	1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	<1	1	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	11	44	34	8
Nickel	ppm	0	0	1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	2225	1601	1604	2109
Magnesium	ppm	108	475	542	105
Zinc	ppm	1275	1074	1048	1070
Phosphorus	ppm	1034	923	890	918
Barium	ppm	0	0	0	0
Boron	ppm	160	48	63	76

Depot: SENWAT
Unique No: 10545728
Signed: Don Baldrige
Report Date: 06 Jul 2023



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GRAPHS

