



CONSTRUCTION EQUIPMENT

CAVANAGH 394790 VOLVO EC480EL 314289 - DIESEL ENGINE



Sample No: VCP380068
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30
Job No: 394790



SAMPLE INFORMATION

Sample Number	VCP380068	VCP430240	VCP391679	VCP349520
Sample Date	14 Feb 2024	18 Oct 2023	04 Jun 2023	30 Jan 2023
Machine Hours	6034	5510	5003	4521
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT

54 IBER ROAD
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 CA K2S 1E8
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OIL CONDITION

Visc @ 100°C	cSt	11.0	10.9	10.9	10.8
Oxidation (PA)	%	90	88	84	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	87	77	80	77
Sulfation (PA)	%	63	63	61	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	11	6
Sodium	ppm	2	3	3	2
Potassium	ppm	1	<1	4	<1

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	5	5	17	6
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	<1	1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	2	2
Chromium	ppm	<1	0	1	<1
Molybdenum	ppm	32	34	22	37
Nickel	ppm	1	2	<1	5
Titanium	ppm	21	12	<1	9
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1763	1686	1901	1778
Magnesium	ppm	489	473	322	501
Zinc	ppm	1101	1067	1109	1133
Phosphorus	ppm	966	873	996	1044
Barium	ppm	0	<1	0	0
Boron	ppm	34	33	80	33

Depot: SHESTI
Unique No: 5734103
Signed: Wes Davis
Report Date: 22 Feb 2024



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GRAPHS

