



CONSTRUCTION EQUIPMENT

CAVANAGH 371251 VOLVO EC380EL 314111 - DIESEL ENGINE



Sample No: VCP380134
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30
Job No: 371251



SAMPLE INFORMATION

Sample Number	VCP380134	VCP352885	---	---
Sample Date	17 Jul 2023	05 Mar 2023	---	---
Machine Hours	5600	4966	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

STRONGCO EQUIPMENT

54 IBER ROAD
 OTTAWA, ON
 CA K2S 1E8
 Contact: Jason Hiles
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 T:
 F: (613)836-2614



OIL CONDITION

Visc @ 100°C	cSt	11.1	10.7	---	---
Oxidation (PA)	%	99	89	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	97	80	---	---
Sulfation (PA)	%	67	71	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	1	0	---	---

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	6	5	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	31	35	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	25	4	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1818	1792	---	---
Magnesium	ppm	506	459	---	---
Zinc	ppm	1144	1083	---	---
Phosphorus	ppm	1020	987	---	---
Barium	ppm	0	0	---	---
Boron	ppm	36	33	---	---

Depot: SHESTI
Unique No: 5616246
Signed: Kevin Marson
Report Date: 21 Jul 2023



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GRAPHS

