



CONSTRUCTION EQUIPMENT

CAVANAGH 379797 VOLVO EC380EL 314111 - DIESEL ENGINE



Sample No: VCP391726
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30
Job No: 379797



SAMPLE INFORMATION

Sample Number	VCP391726	VCP380134	VCP352885	---
Sample Date	15 Oct 2023	17 Jul 2023	05 Mar 2023	---
Machine Hours	5975	5600	4966	---
Oil Hours	0	500	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

STRONGCO EQUIPMENT

54 IBER ROAD
 OTTAWA, ON
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OIL CONDITION

Visc @ 100°C	cSt	11.1	11.1	10.7	---
Oxidation (PA)	%	101	99	89	---



CONTAMINATION

Soot %	%	0	0	0	---
Nitration (PA)	%	86	97	80	---
Sulfation (PA)	%	68	67	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	6	---
Sodium	ppm	3	3	2	---
Potassium	ppm	<1	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	4	6	5	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	1	1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	2	2	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	37	31	35	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	9	25	4	---
Silver	ppm	<1	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1733	1818	1792	---
Magnesium	ppm	496	506	459	---
Zinc	ppm	1093	1144	1083	---
Phosphorus	ppm	933	1020	987	---
Barium	ppm	<1	0	0	---
Boron	ppm	34	36	33	---

Depot: SHESTI
Unique No: 5669048
Signed: Kevin Marson
Report Date: 26 Oct 2023



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GRAPHS

