



CONSTRUCTION EQUIPMENT

8-374023 VOLVO EC300E 313167 - DIESEL ENGINE



Sample No: VCP380454
Oil Type: PETRO CANADA 15W40
Job No: 8-374023



SAMPLE INFORMATION

Sample Number	VCP380454	VCP332539	VCP298599	---
Sample Date	28 Jul 2023	23 Jun 2022	26 May 2022	---
Machine Hours	6810	4460	4266	---
Oil Hours	200	194	375	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4

Contact: Janice Cripps
jcripps@strongco.com
T: (905)565-3876
F: (905)670-2338



OIL CONDITION

Visc @ 100°C	cSt	14.3	12.7	13.1	---
Oxidation (PA)	%	55	80	59	---



CONTAMINATION

Soot %	%	0	0	0	---
Nitration (PA)	%	45	53	53	---
Sulfation (PA)	%	52	67	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.5	---
Silicon	ppm	▲ 24	▲ 33	▲ 27	---
Sodium	ppm	2	2	1	---
Potassium	ppm	1	<1	<1	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of dirt present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	5	5	7	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	3	5	▲ 7	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	61	45	57	---
Nickel	ppm	0	<1	1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	<1	<1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1186	1644	1073	---
Magnesium	ppm	1013	569	989	---
Zinc	ppm	1256	1086	1211	---
Phosphorus	ppm	1140	920	1061	---
Barium	ppm	0	0	0	---
Boron	ppm	4	35	3	---

Depot: SHEMIS
Unique No: 5618399
Signed: Kevin Marson
Report Date: 01 Aug 2023



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GRAPHS

