



CONSTRUCTION EQUIPMENT

SOLORAIL LOGISTIQUE KONE CRANE SMV4531TC5 M1 1924 - DIESEL ENGINE



Sample No: VCP347427
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP347427	VCP392415	VCP380151	---
Sample Date	16 Dec 2023	02 Dec 2023	02 Jul 2023	---
Machine Hours	2530	2855	1363	---
Oil Hours	0	500	500	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

STRONGCO INC

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	▲ 11.1	■ 9.7	---
Oxidation (PA)	%	79	82	79	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0	■ 0.1	■ 0	---
Nitration (PA)	%	47	68	58	---
Sulfation (PA)	%	61	60	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 2.8	▲ 5.7	<1.0	---
Silicon	ppm	■ 4	■ 4	■ 6	---
Sodium	ppm	■ 2	■ 2	■ 1	---
Potassium	ppm	■ 0	■ 0	■ <1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 3	■ 6	■ 5	---
Copper	ppm	■ <1	■ <1	■ 11	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	■ 1	■ 2	■ 1	---
Chromium	ppm	■ 0	■ 0	■ <1	---
Molybdenum	ppm	■ 38	■ 38	■ 46	---
Nickel	ppm	■ <1	■ <1	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	■ 0	■ 0	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1630	■ 1559	■ 1556	---
Magnesium	ppm	■ 479	■ 466	■ 467	---
Zinc	ppm	■ 1035	■ 1013	■ 1022	---
Phosphorus	ppm	■ 896	■ 865	■ 929	---
Barium	ppm	■ <1	■ <1	■ 0	---
Boron	ppm	■ 60	■ 45	■ 82	---

Depot: VOLVO0229
Unique No: 5697169
Signed: Wes Davis
Report Date: 20 Dec 2023



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GRAPHS

