



CONSTRUCTION EQUIPMENT

TRIPLE M VOLVO EC480E 3 10173 - DIESEL ENGINE



Sample No: VCP391691
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP391691	VCP353479	VCP347377	VCP275404
Sample Date	12 Jul 2023	26 Oct 2022	26 Oct 2022	02 Dec 2021
Machine Hours	17146	15967	15976	13266
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.3	13.2	12.6	12.5
Oxidation (PA)	%	73	80	90	104



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	56	65	69	88
Sulfation (PA)	%	57	62	64	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.7	<1.0	<1.0	0.8
Silicon	ppm	5	4	4	4
Sodium	ppm	3	2	4	3
Potassium	ppm	<1	0	0	<1



WEAR METALS

Iron	ppm	▲ 142	5	6	11
Copper	ppm	2	<1	<1	1
Lead	ppm	<1	<1	1	4
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	33	36	41	39
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1374	1761	1574	1597
Magnesium	ppm	425	438	558	512
Zinc	ppm	947	1069	1097	1073
Phosphorus	ppm	862	966	1003	924
Barium	ppm	0	0	0	0
Boron	ppm	31	23	19	20

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO0252
Unique No: 5616452
Signed: Kevin Marson
Report Date: 24 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

