



CONSTRUCTION EQUIPMENT

TRIPLE M METAL 392279 VOLVO EC380E 314843 - DIESEL ENGINE



Sample No: VCP391994
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 392279



SAMPLE INFORMATION

Sample Number	VCP391994	VCP392130	VCP394982	VCP381953
Sample Date	24 Jan 2024	23 Nov 2023	17 Jul 2023	07 Mar 2023
Machine Hours	4061	3751	2990	2367
Oil Hours	0	0	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.4	12.6	12.3
Oxidation (PA)	%	84	86	83	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	57	69	63	64
Sulfation (PA)	%	63	62	63	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.1	<1.0	1.5	<1.0
Silicon	ppm	3	5	4	6
Sodium	ppm	2	3	2	2
Potassium	ppm	<1	0	0	<1

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	8	7	6
Copper	ppm	1	3	7	37
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	41	45	43	40
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	2	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1662	1489	1510	1738
Magnesium	ppm	517	636	614	533
Zinc	ppm	1043	1094	1091	1085
Phosphorus	ppm	910	917	976	994
Barium	ppm	0	<1	0	0
Boron	ppm	51	18	25	40

Depot: VOLVO0252
Unique No: 5720452
Signed: Wes Davis
Report Date: 29 Jan 2024



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GRAPHS

