



CONSTRUCTION EQUIPMENT

TRIPLE M 400465 VOLVO EC380EL VCE380EJ003 10375 - DIESEL ENGINE



Sample No: VCP448154
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 400465



SAMPLE INFORMATION

Sample Number	VCP448154	VCP381009	VCP382113	VCP380848
Sample Date	18 Apr 2024	17 May 2023	09 Jan 2023	22 Dec 2022
Machine Hours	13269	11825	11249	8771
Oil Hours	1000	0	20	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 100°C	cSt	11.8	12.4	13.8	12.3
Oxidation (PA)	%	84	82	53	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	71	62	53	62
Sulfation (PA)	%	59	60	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.9	<1.0	1.6
Silicon	ppm	13	11	7	40
Sodium	ppm	2	3	3	8
Potassium	ppm	2	1	3	6

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are abnormal. Piston wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	69	11	5	32
Copper	ppm	2	2	<1	6
Lead	ppm	1	<1	<1	2
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	12	5	2	6
Chromium	ppm	2	<1	0	1
Molybdenum	ppm	40	34	5	41
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	2	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	<1	3
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1686	1719	1427	1738
Magnesium	ppm	507	530	684	502
Zinc	ppm	1020	1084	1146	1084
Phosphorus	ppm	872	1016	1091	1014
Barium	ppm	0	0	0	0
Boron	ppm	39	55	97	51

Depot: VOLVO0252
Unique No: 5763286
Signed: Kevin Marson
Report Date: 22 Apr 2024



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VOLVO GRAPHS

