



CONSTRUCTION EQUIPMENT

TRIPLE M METAL 8000385851 VOLVO L260 1233 - DIESEL ENGINE



Sample No: VCP380079
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000385851



SAMPLE INFORMATION

Sample Number	VCP380079	VCP430007	VCP380130	VCP394777
Sample Date	04 Dec 2023	12 Oct 2023	28 Aug 2023	12 Jul 2023
Machine Hours	7547	0	921	4516
Oil Hours	0	2000	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	NORMAL	NORMAL

STRONGCO EQUIPMENT (CE)
 1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: Sue Hooton
 shooton@strongco.com
 T: (905)331-3835
 F: (905)643-6077



OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.7	12.9
Oxidation (PA)	%	87	84	76	92



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	62	61	59	71
Sulfation (PA)	%	62	63	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	6	5
Sodium	ppm	3	3	3	3
Potassium	ppm	0	<1	1	<1

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Nickel ppm levels are severe. Exhaust valve 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	22	20	18	15
Copper	ppm	2	2	4	10
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	3	2	2
Chromium	ppm	3	3	3	<1
Molybdenum	ppm	39	40	38	40
Nickel	ppm	8	9	6	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1577	1710	1652	1682
Magnesium	ppm	484	501	493	511
Zinc	ppm	1023	1072	1063	1095
Phosphorus	ppm	835	910	935	959
Barium	ppm	<1	<1	0	0
Boron	ppm	24	22	19	17

Depot: VOLVO0252
Unique No: 5693994
Signed: Kevin Marson
Report Date: 06 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

