



CONSTRUCTION EQUIPMENT

GFL ENVIRONMENTAL INC 394234 VOLVO L70H 622343 - DIESEL ENGINE



Sample No: VCP394083
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 394234



SAMPLE INFORMATION

Sample Number	VCP394083	VCP380147	VCP352370	VCP332751
Sample Date	12 Feb 2024	21 Aug 2023	29 Jan 2023	17 Apr 2022
Machine Hours	3311	12401	11127	9488
Oil Hours	1000	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.3	13.6	13.6
Oxidation (PA)	%	83	84	90	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0	0.3	0.3
Nitration (PA)	%	63	69	81	80
Sulfation (PA)	%	63	66	67	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.1	<1.0	<1.0
Silicon	ppm	30	6	34	31
Sodium	ppm	11	3	2	3
Potassium	ppm	<1	<1	0	<1

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of dirt present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	14	11	14	17
Copper	ppm	1	19	3	<1
Lead	ppm	0	1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	<1	8	11
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	39	45	39
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	4
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1735	1673	1756	1681
Magnesium	ppm	502	506	552	529
Zinc	ppm	1081	1057	1135	1113
Phosphorus	ppm	935	938	1025	969
Barium	ppm	0	0	0	0
Boron	ppm	26	26	18	27

Depot: VOLVO0252
Unique No: 5724436
Signed: Kevin Marson
Report Date: 14 Feb 2024



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GRAPHS

