



CONSTRUCTION EQUIPMENT

371719 VOLVO L20HS VCEL20HSP01220259 - DIESEL ENGINE



Sample No: VCP392446
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 371719



SAMPLE INFORMATION

Sample Number	VCP392446	VCP334405	VCP332547	VCP347449
Sample Date	19 Jul 2023	05 Apr 2023	19 Jul 2022	11 Mar 2022
Machine Hours	2565	2066	923	445
Oil Hours	500	500	0	445
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

STRONGCO EQUIP (AB)
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OIL CONDITION

Visc @ 100°C	cSt	13.9	15.8	12.9	▲ 11.6
Oxidation (PA)	%	100	140	76	122



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	80	120	66	101
Sulfation (PA)	%	67	83	57	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.1
Silicon	ppm	8	▲ 21	7	15
Sodium	ppm	6	18	32	38
Potassium	ppm	<1	<1	<1	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	6	10	11	23
Copper	ppm	<1	3	7	23
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	41	43	37	34
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	2	3
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1660	1777	1699	1762
Magnesium	ppm	519	554	456	413
Zinc	ppm	1112	1147	1090	1031
Phosphorus	ppm	1004	1046	904	884
Barium	ppm	0	0	<1	4
Boron	ppm	52	51	51	50

Depot: VOLVO9652
Unique No: 5616442
Signed: Wes Davis
Report Date: 21 Jul 2023



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GRAPHS

