



CONSTRUCTION EQUIPMENT

IMPACT AUTO 400744 VOLVO L90H 6253 18 - DIESEL ENGINE



Sample No: VCP391661
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 400744



SAMPLE INFORMATION

Sample Number	VCP391661	VCP280746	VCP273327	VCP251151
Sample Date	11 Apr 2024	09 Feb 2021	07 Aug 2020	22 Apr 2020
Machine Hours	7237	1992	1027	500
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	13.2	14.1	12.3
Oxidation (PA)	%	81	76	58	63



CONTAMINATION

Water	%	NEG	NEG	NEG	0.080
Soot %	%	0.4	0.5	0.7	0.5
Nitration (PA)	%	65	63	78	84
Sulfation (PA)	%	63	62	58	67
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	10	9	18
Sodium	ppm	4	3	<1	3
Potassium	ppm	<1	1	4	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	24	17	32	55
Copper	ppm	<1	1	3	10
Lead	ppm	0	0	<1	1
Tin	ppm	0	<1	1	3
Aluminum	ppm	8	4	3	6
Chromium	ppm	<1	1	2	4
Molybdenum	ppm	39	33	3	18
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	6
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1641	1548	1345	1383
Magnesium	ppm	496	515	767	723
Zinc	ppm	1046	1061	846	962
Phosphorus	ppm	886	861	772	863
Barium	ppm	<1	<1	0	1
Boron	ppm	34	35	41	48

Depot: VOLVO3909
Unique No: 5763015
Signed: Wes Davis
Report Date: 18 Apr 2024



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GRAPHS

