



CONSTRUCTION EQUIPMENT

19480 KOPPERS VOLVO L150H 6982 - DIESEL ENGINE



Sample No: VCP413269
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19480 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP413269	VCP421452	VCP0005092	VCP364564
Sample Date	28 Aug 2023	03 May 2023	07 Nov 2022	17 Aug 2022
Machine Hours	2853	1982	1445	1106
Oil Hours	871	537	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	14.3	12.7	12.5
Base Number (BN)	mg KOH/g	7.4	8.6	10.1	9.4
Oxidation (PA)	%	60	59	69	76

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	66	62	60	70
Sulfation (PA)	%	53	52	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	4	6
Sodium	ppm	1	<1	1	2
Potassium	ppm	2	<1	1	<1



WEAR METALS

Iron	ppm	7	5	5	8
Copper	ppm	20	8	47	323
Lead	ppm	1	<1	2	0
Tin	ppm	<1	2	1	2
Aluminum	ppm	<1	3	1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	65	56	50	51
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1276	1175	1343	1425
Magnesium	ppm	909	949	703	670
Zinc	ppm	1304	1263	1117	1198
Phosphorus	ppm	1016	996	899	951
Barium	ppm	0	0	0	3
Boron	ppm	33	8	21	0

Depot: VOLVO8769
Unique No: 10643883
Signed: Don Baldrige
Report Date: 14 Sep 2023



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VOLVO GRAPHS

