



CONSTRUCTION EQUIPMENT

SPM634622 US GYPSUM VOLVO L180H 5498 - DIESEL ENGINE



Sample No: VCP435709
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM634622 US GYPSUM



SAMPLE INFORMATION

Sample Number	VCP435709	VCP422581	VCP422606	VCP403577
Sample Date	29 Nov 2023	06 Jul 2023	24 Apr 2023	13 Mar 2023
Machine Hours	6195	5158	4620	4285
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.0	14.5	13.1
Base Number (BN)	mg KOH/g	6.3	8.8	8.3	7.8
Oxidation (PA)	%	70	58	53	63

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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.1	0.2
Nitration (PA)	%	76	60	48	73
Sulfation (PA)	%	59	52	47	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	2	3
Sodium	ppm	<1	2	0	2
Potassium	ppm	1	0	<1	<1



WEAR METALS

Iron	ppm	6	4	2	8
Copper	ppm	2	<1	0	2
Lead	ppm	1	0	0	2
Tin	ppm	<1	<1	0	1
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	59	63	59	61
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1015	1140	1063	1094
Magnesium	ppm	954	1050	1040	947
Zinc	ppm	1239	1309	1360	1241
Phosphorus	ppm	918	1087	1070	1032
Barium	ppm	0	0	0	2
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10792855
Signed: Wes Davis
Report Date: 19 Dec 2023



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VOLVO GRAPHS

