



CONSTRUCTION EQUIPMENT

SPM553978 US GYPSUM VOLVO L180H 5572 - DIESEL ENGINE



Sample No: VCP422596
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM553978 US GYPSUM



SAMPLE INFORMATION

Sample Number	VCP422596	VCP410748	VCP364844	VCP365835
Sample Date	13 Jun 2023	14 Mar 2023	24 Jan 2023	02 Nov 2022
Machine Hours	4720	4201	3714	3006
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.4	13.5	13.3	14.0
Base Number (BN)	mg KOH/g	9.6	9.0	8.7	10.2
Oxidation (PA)	%	59	59	60	60

CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	63	60	68	58
Sulfation (PA)	%	53	52	52	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	3
Sodium	ppm	<1	2	<1	0
Potassium	ppm	2	<1	0	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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	5	10	5	4
Copper	ppm	3	5	1	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	59	59	59
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1056	1078	1089	1064
Magnesium	ppm	1005	907	941	901
Zinc	ppm	1328	1205	1246	1203
Phosphorus	ppm	1063	1011	997	1014
Barium	ppm	0	2	0	2
Boron	ppm	<1	0	0	<1

Depot: VOLVO8885
Unique No: 10548403
Signed: Wes Davis
Report Date: 10 Jul 2023



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GRAPHS

