



CONSTRUCTION EQUIPMENT

SPM703351 US GYPSUM VOLVO L180H 5572 - DIESEL ENGINE



Sample No: VCP446948
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM703351 US GYPSUM



SAMPLE INFORMATION

Sample Number	VCP446948	VCP413976	VCP422596	VCP410748
Sample Date	30 Apr 2024	12 Sep 2023	13 Jun 2023	14 Mar 2023
Machine Hours	7008	5421	4720	4201
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.3	14.4	13.5
Base Number (BN)	mg KOH/g	6.3	7.7	9.6	9.0
Oxidation (PA)	%	75	63	59	59

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	0.3	0.2	0.2
Nitration (PA)	%	79	68	63	60
Sulfation (PA)	%	61	54	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	4
Sodium	ppm	3	2	<1	2
Potassium	ppm	<1	2	2	<1



WEAR METALS

Iron	ppm	11	6	5	10
Copper	ppm	4	2	3	5
Lead	ppm	<1	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	0	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	63	61	60	59
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1208	1076	1056	1078
Magnesium	ppm	1032	1003	1005	907
Zinc	ppm	1256	1297	1328	1205
Phosphorus	ppm	992	1069	1063	1011
Barium	ppm	0	0	0	2
Boron	ppm	0	<1	<1	0

Depot: VOLVO8885
Unique No: 11029620
Signed: Wes Davis
Report Date: 14 May 2024



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GRAPHS

