



CONSTRUCTION EQUIPMENT

SPM702626 MCDIRT VOLVO A45GFS 352581 - DIESEL ENGINE



Sample No: VCP443793
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702626 MCDIRT



SAMPLE INFORMATION

Sample Number	VCP443793	VCP436992	VCP414263	VCP403204
Sample Date	23 Apr 2024	17 Feb 2024	06 Sep 2023	03 May 2023
Machine Hours	3544	3178	2513	2009
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	13.1	13.1
Base Number (BN)	mg KOH/g	9.5	7.3	8.0	7.4
Oxidation (PA)	%	62	60	54	54

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 %	%	0.4	0.7	0.6	0.5
Nitration (PA)	%	63	77	67	63
Sulfation (PA)	%	54	55	52	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	10	5	5
Sodium	ppm	<1	3	<1	0
Potassium	ppm	1	3	0	<1



WEAR METALS

Iron	ppm	6	25	14	10
Copper	ppm	2	7	2	2
Lead	ppm	<1	1	<1	0
Tin	ppm	<1	2	1	0
Aluminum	ppm	2	4	<1	0
Chromium	ppm	0	2	<1	<1
Molybdenum	ppm	60	96	62	58
Nickel	ppm	0	▲ 4	2	2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1064	1540	1156	1060
Magnesium	ppm	957	1417	1064	1002
Zinc	ppm	1275	1872	1327	1317
Phosphorus	ppm	1044	1419	1068	1070
Barium	ppm	0	1	0	0
Boron	ppm	2	5	0	2

Depot: VOLVO8885
Unique No: 11016905
Signed: Wes Davis
Report Date: 08 May 2024



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GRAPHS

