



CONSTRUCTION EQUIPMENT

SPM579695 VOLVO A45G 352632 - DIESEL ENGINE



Sample No: VCP386783
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM579695



SAMPLE INFORMATION

Sample Number	VCP386783	VCP387221	VCP379142	VCP340274
Sample Date	10 Jul 2023	27 Jan 2023	30 Jun 2022	30 Dec 2021
Machine Hours	2530	1617	1092	506
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

A J MCDIRT
P.O. BOX 781
STERLING, IL
US 61081
Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.6	▲ 10.9
Base Number (BN)	mg KOH/g	8.4	8.8	8.7	9.6
Oxidation (PA)	%	54	59	65	85

T: (815)631-1606
F:

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

Soot %	%	0.6	0.6	0.6	0.4
Nitration (PA)	%	65	73	73	63
Sulfation (PA)	%	51	54	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.2
Silicon	ppm	4	6	9	33
Sodium	ppm	46	2	3	3
Potassium	ppm	3	<1	0	0

WEAR METALS

Iron	ppm	15	19	41	33
Copper	ppm	2	3	8	32
Lead	ppm	<1	1	2	2
Tin	ppm	<1	2	2	4
Aluminum	ppm	1	1	1	2
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	61	60	57	35
Nickel	ppm	4	4	8	▲ 9
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	1	3
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1052	1060	1208	1382
Magnesium	ppm	913	976	912	397
Zinc	ppm	1207	1311	1224	985
Phosphorus	ppm	1023	1036	1000	800
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	7	43

Depot: AJMSTE
Unique No: 10589084
Signed: Wes Davis
Report Date: 08 Aug 2023



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GRAPHS

