



CONSTRUCTION EQUIPMENT

SPM717839 MCIRON VOLVO A45GG6 352632 - DIESEL ENGINE



Sample No: VCP444194
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM717839 MCIRON



SAMPLE INFORMATION

Sample Number	VCP444194	VCP304651	VCP433413	---
Sample Date	03 Jun 2024	08 Mar 2024	12 Oct 2023	---
Machine Hours	3995	3423	2965	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.0	13.3	---
Base Number (BN)	mg KOH/g	8.8	7.8	8.7	---
Oxidation (PA)	%	60	58	57	---

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	---
Soot %	%	0.5	0.6	0.7	---
Nitration (PA)	%	72	73	68	---
Sulfation (PA)	%	55	54	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	3	4	---
Sodium	ppm	28	97	125	---
Potassium	ppm	2	0	4	---



WEAR METALS

Iron	ppm	17	18	16	---
Copper	ppm	3	3	2	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	5	2	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	75	59	60	---
Nickel	ppm	3	4	4	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1334	1091	1032	---
Magnesium	ppm	1234	1003	926	---
Zinc	ppm	1597	1297	1200	---
Phosphorus	ppm	1262	1080	964	---
Barium	ppm	0	0	0	---
Boron	ppm	2	0	0	---

Depot: VOLVO8885
Unique No: 11089399
Signed: Wes Davis
Report Date: 24 Jun 2024



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GRAPHS

