



CONSTRUCTION EQUIPMENT

SPM646183 ALTER ROCK SENNEBOGEN 840 840.0.2192 - DIESEL ENGINE



Sample No: VCP433264
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM646183 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP433264	VCP400507	VCP399746	VCP327573
Sample Date	05 Dec 2023	15 Aug 2023	30 Mar 2023	06 Oct 2021
Machine Hours	13870	12681	11146	5724
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	MARGINAL

ALTA CONSTRUCTION EQUIPMENT
613 E STEVENSON RD
OTTAWA, IL
US 61350
Contact: KEVIN SKRTICH
KEVIN.SKRTICH@ALTAEQUIPMENT.COM
T:
F:



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	12.3	12.9
Base Number (BN)	mg KOH/g	8.9	10.1	6.3	---
Oxidation (PA)	%	66	88	77	95

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	64	71	73	87
Sulfation (PA)	%	54	64	54	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	▲ 2.9	▲ 2.0
Silicon	ppm	2	4	3	4
Sodium	ppm	0	1	0	0
Potassium	ppm	<1	2	2	11



WEAR METALS

Iron	ppm	2	5	11	9
Copper	ppm	<1	<1	1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	1	0	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	56	43	56	44
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	987	1621	1043	1825
Magnesium	ppm	947	564	856	488
Zinc	ppm	1242	1095	1156	1144
Phosphorus	ppm	946	889	914	971
Barium	ppm	0	2	2	<1
Boron	ppm	0	33	1	29

Depot: VOLVO5055
Unique No: 10792850
Signed: Wes Davis
Report Date: 19 Dec 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

