



CONSTRUCTION EQUIPMENT

SPM620969 SENNEBOGEN 830ME 830.0.2822 - DIESEL ENGINE



Sample No: VCP423239
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM620969



SAMPLE INFORMATION

Sample Number	VCP423239	VCP382785	VCP387415	VCP372282
Sample Date	17 Oct 2023	10 Jul 2023	17 Nov 2022	29 Jul 2022
Machine Hours	1492	8436	6992	6460
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OZINGA BROS INC
 19001 OLD LAGRANDE RD
 MOKENA, IL
 US 60448
 Contact: ED JONGSMA

OIL CONDITION

Visc @ 100°C	cSt	14.0	13.4	13.6	14.5
Base Number (BN)	mg KOH/g	9.9	5.9	9.7	6.1
Oxidation (PA)	%	60	85	70	124

T: (708)326-4200
 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.4	0.3	1.1
Nitration (PA)	%	54	83	70	122
Sulfation (PA)	%	52	64	60	84
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	3	6
Sodium	ppm	1	11	1	4
Potassium	ppm	2	0	1	<1

WEAR METALS

Iron	ppm	15	19	14	73
Copper	ppm	4	<1	<1	3
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	14	<1	1	2
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	55	65	63	70
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1019	1195	1110	1242
Magnesium	ppm	835	1121	1013	1098
Zinc	ppm	1137	1287	1346	1477
Phosphorus	ppm	843	1089	1016	1152
Barium	ppm	12	0	0	0
Boron	ppm	7	0	1	8

Depot: OZIMOKVC
Unique No: 10882804
Signed: Wes Davis
Report Date: 16 Feb 2024



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GRAPHS

