



# CONSTRUCTION EQUIPMENT

## SPM595474 SENNEBOGAN 825M 825.0.3415 - DIESEL ENGINE



**Sample No:** VCP415188  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM595474



### SAMPLE INFORMATION

Sample Number	<b>VCP415188</b>	VCP418525	VCP410833	VCP404379
Sample Date	<b>25 Aug 2023</b>	08 May 2023	09 Mar 2023	06 Jan 2023
Machine Hours	<b>7037</b>	6085	5539	5025
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	13.3	12.9	13.1
Base Number (BN)	mg KOH/g	<b>8.7</b>	7.9	9.0	9.3
Oxidation (PA)	%	<b>59</b>	68	63	59

### 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 %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	63	62	55
Sulfation (PA)	%	<b>52</b>	57	55	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	2	2	2
Sodium	ppm	<b>&lt;1</b>	1	0	<1
Potassium	ppm	<b>&lt;1</b>	<1	1	0



### WEAR METALS

Iron	ppm	<b>6</b>	10	11	8
Copper	ppm	<b>2</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	<1	2	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>45</b>	62	58	60
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>902</b>	1270	1074	1067
Magnesium	ppm	<b>787</b>	848	919	945
Zinc	ppm	<b>1036</b>	1265	1211	1236
Phosphorus	ppm	<b>836</b>	992	967	961
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	15	0	0

**Depot:** ALLCHILL  
**Unique No:** 10633970  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023



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## GRAPHS

