



Power test run - MAN B&W 23/30H  
Auxiliary Engine No. 1

Form  
AE01b  
Rev. 1

MV/m/v "Lantau Ace"

Date 2020-11-29 Time 01:45

Voyage No. 127W

Engine S/N Ba0942-1

Running hours 59622

General data & Conditions

Maximum power 1050  
Engine revolutions 901

T/C type n  
Governor type ug-8

E/R Temp. 38.0  
Air pressure

Alternator

Load 450.0

Current 850.0

Voltage 440

Frequency 60

Bearing temperatures - DE / NDE 61.0 54

Turbocharger & Charge Air Cooler

Revolutions 2979

Exhaust gas temperature in / out 430 449

Air temperature CAC in / out 38.0 38

Charge air pressure 1

CAC Diff. pressure

Fuel Oil

Automatic Filter Type n

Separator Type n

Backflush cycles per day 12

Grade IFO 180

Density 917.4

Sulphur 0.5

Water 0.1

Carbon 3.5

Pressure Engine inlet 9.5

Temperature Engine inlet 88.0

Viscosity 43

Lubricating Oil

LO Type NAVIGO TPEO 30-30

Automatic Filter Type n

Separator Type n

Backflush cycles per day

Pressure Filter in / out 3.7 3.6

Pressure Cooler inlet 3.6

Pressure Engine inlet 3.6

Pressure T/C inlet 1.8

Temp. Engine in / out 63 68

Temp. Cooler in / out 68 63

Consumption 100.0

Indicator Type n

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Fuel rack position [mm]	19.0	21.0	17.0	15.0	22.0	15.0	21.0
Exh. gas temp. (Eng.)	370.0	300.0	380.0	410.0	280.0	370.0	380.0
Exh. gas temp. (ECR)							
Mean indicated press.							
Compression pressure							
Maximum Pressure	90.0	80.0	60.0	78.0	90.0	80.0	80.0

Cooling Water Systems

Sea Water

Pressure 3.5

Temperature 24.0

Temperature LT Cooler 1 in / out 22.0 28.0

Temperature LT Cooler 2 in / out 20.0 32.0

LT Cooling Water

Pressure Engine inlet 1.6

Temperature Engine Inlet 30.0

Temperature CAC outlet 35.0

Temperature LO Cooler outlet 38.0

Temperature LT Cooler 1 in / out 40.0 24.0

Temperature LT Cooler 2 in / out 40.0 28.0

HT Cooling Water

Pressure Engine inlet 2.7

Temperature Engine inlet 80.0

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Temperature Cylinder outlet	73.0	73.0	77.0	78.0	77.0	76.0	78.0

Remarks

Riabchenko M.

Chief Engineer



Reederei Köpping

# Power test run - MAN B&W 23/30H

## Auxiliary Engine No. 2

Form

AE01b

Rev. 1

MV Date  Time Engine S/N Voyage No. Running hours 

### General data & Conditions

Maximum power   
Engine revolutions T/C type Governor type E/R Temp. Air pressure 

### Alternator

Load Current Voltage Frequency Bearing temperatures - DE / NDE  

### Turbocharger & Charge Air Cooler

Revolutions Exhaust gas temperature in / out  Charge air pressure Air temperature CAC in / out  CAC Diff. pressure 

### Fuel Oil

Automatic Filter Type Separator Type Backflush cycles per day Grade Density Sulphur Water Carbon Pressure Engine inlet Temperature Engine inlet Viscosity 

### Lubricating Oil

LO Type Automatic Filter Type Separator Type Backflush cycles per day Pressure Filter in / out  Temp. Engine in / out  Consumption Pressure Cooler inlet Temp. Cooler in / out  Pressure Engine inlet Pressure T/C inlet Indicator Type 

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Fuel rack position [mm]	17.0	16.0	15.0	15.0	16.0	15.0	15.0
Exh. gas temp. (Eng.)	360.0	320.0	360.0	330.0	320.0	330.0	285.0
Exh. gas temp. (ECR)							
Mean indicated press.	75.0	76.0	75.0	80.0	81.0	75.0	86.0
Compression pressure							
Maximum Pressure							

### Cooling Water Systems

#### Sea Water

Pressure   
Temperature Temperature LT Cooler 1 in / out  Temperature LT Cooler 2 in / out  

#### LT Cooling Water

Pressure Engine inlet   
Temperature Engine inlet   
Temperature CAC outlet   
Temperature LO Cooler outlet Temperature LT Cooler 1 in / out  Temperature LT Cooler 2 in / out  

#### HT Cooling Water

Pressure Engine inlet Temperature Engine inlet 

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Temperature Cylinder outlet	70.0	68.0	69.0	68.0	70.0	70.0	70.0

Remarks

S.Hryhoriev

Chief Engineer



Reederei Köpping

# Power test run - MAN B&W 23/30H

## Auxiliary Engine No. 3

Form

AE01b

Rev. 1

MV/m/v "Lantau Ace"

Date 2020-12-29

Time 13:00

Engine S/N BA0942-3

Voyage No. 128E

Running hours 64239

### General data & Conditions

Maximum power 1050

Engine revolutions 901

T/C type n

Governor type ug-8

E/R Temp 30.0

Air pressure 1030

### Alternator

Load 453.0

Current 760.0

Voltage 440

Frequency 60

Bearing temperatures - DE / NDE 52.0 56

### Turbocharger & Charge Air Cooler

Revolutions 21700

Exhaust gas temperature in / out 560 467

Air temperature CAC in / out 76.0 38

Charge air pressure 1

CAC Diff. pressure N/A

### Fuel Oil

Automatic Filter Type n

Separator Type n

Backflush cycles per day 12

Grade IFO 180

Density 918.3

Sulphur 0.5

Water 0.0

Carbon 0.1

Pressure Engine inlet 9.5

Temperature Engine inlet 78.0

Viscosity 13

### Lubricating Oil

LO Type NAVIGO TPEO 30-30

Automatic Filter Type n

Separator Type n

Backflush cycles per day

Pressure Filter in / out 3.9 3.5

Pressure Cooler inlet 3.9

Pressure Engine inlet 3.5

Pressure T/C inlet 1.6

Temp. Engine in / out 58 67

Temp. Cooler in / out 67 58

Consumption 8.0

### Indicator Type n

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Fuel rack position [mm]	14.0	16.0	16.0	16.0	16.0	18.0	18.0
Exh. gas temp. (Eng.)	300.0	300.0	410.0	390.0	320.0	285.0	300.0
Exh. gas temp. (ECR)							
Mean indicated press.							
Compression pressure							
Maximum Pressure	66.0	78.0	71.0	70.0	78.0	62.0	61.0

### Cooling Water Systems

#### Sea Water

Pressure 3.0  
Temperature 13.0

Temperature LT Cooler 1 in / out 13.0 20.0  
Temperature LT Cooler 2 in / out 13.0 21.0

#### LT Cooling Water

Pressure Engine inlet 1.6  
Temperature Engine inlet 35.0  
Temperature CAC outlet 44.0  
Temperature LO Cooler outlet 38.0

Temperature LT Cooler 1 in / out 40.0 26.0  
Temperature LT Cooler 2 in / out 40.0 20.0

#### HT Cooling Water

Pressure Engine inlet 4.0

Temperature Engine inlet 68.0

	Cyl.1	Cyl.2	Cyl.3	Cyl.4	Cyl.5	Cyl.6	Cyl.7
Temperature Cylinder outlet	71.0	72.0	72.0	70.0	73.0	71.0	73.0

Remarks

Riabchenko M.

Chief Engineer