

LEMAG-ECI calculation results

Ship/plant: BITU ATLANTIC

Engine: MAIN ENGINE @ 103.6 RPM

Measurement date: 2019.01.10T09:25:07Z

TDC correction not performed. Cannot show TDC corrected values.

ISO corrected results (not TDC corrected)

Cyl	Pind[kW]	p _{mi} [Bar]	p _{max} [Bar]	ap _{max} [°]	REM
1	1502.4	16.2	114.3	12.4	103.6
2	1489.4	16.1	111.0	13.8	103.3
3	1444.0	15.5	112.6	13.3	103.9
4	1495.8	16.1	112.0	13.5	103.6
5	1419.4	15.3	111.7	13.0	103.4
6	1458.4	15.7	108.5	12.9	103.5

Total indicated power (ISO and not TDC corrected): 8809.4kW

raw results (not ISO and not TDC corrected)

Cyl	Pind[kW]	p _{mi} [Bar]	p _{max} [Bar]	ap _{max} [°]	REM
1	1466.1	15.8	111.5	12.4	103.6
2	1453.5	15.7	108.3	13.8	103.3
3	1409.1	15.1	109.8	13.3	103.9
4	1459.7	15.7	109.3	13.5	103.6
5	1385.2	15.0	109.0	13.0	103.4
6	1423.2	15.4	105.8	12.9	103.5

Total indicated power (raw, not TDC and not ISO corrected): 8596.8kW

Pressure at TDC (P_{comp.})

Cyl	iso_tdc[Bar]	iso_TDC[Bar]	ISO_tdc[Bar]	ISO_TDC[Bar]
1	81.5	81.5	83.5	83.5
2	79.8	79.8	81.8	81.8
3	78.5	78.5	80.5	80.5
4	80.5	80.5	82.6	82.6
5	80.5	80.5	82.6	82.6
6	78.7	78.7	80.7	80.7

iso_tdc = not ISO / not TDC corrected

iso_TDC = not ISO / TDC corrected

ISO_tdc = ISO / not TDC corrected

ISO_TDC = ISO / TDC corrected

LEMAG-ECI details

LEMAG-ECI type: ECI-MS

Serial #: 43896

Firmware: 2017-12-13 (01.02.09)

Sensor details

Port	Type	serial#	Manufacturer	calibration	sensitivity	unit
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1	NCNE				
2	G051S	43526	PZOCR	17.639999	bar
3					
4					
5					

Measurement details

Timestamp: 2019.01.10T09:25:07Z

Comment: Generated by LEMAG /ECI-MS, firmware revision [01.02.09]

Filename: D:\data\engine01\2019\01\10092507.sce

Scavenger pressure: 1.4 [Bar]

TDC correction details

TDC corrected: no

Air inlet temperature: 51.5 [°C]

Water inlet temperature: 60 [°C]

Engine load: 56[%]

Measurement comment:

Engine details

Engine Name: MAIN ENGINE

Engine Type: 2 stroke

Engine Layout: Line engine

Manufacturer: KOBE DIESEL

Manufacturer's type: 6JEC60LA

Cylinders: 6

Bore: 600[mm]

Stroke: 1900[mm]

Conrod length: 1500[mm]

Ship/plant details

Ship/plant Name: BITU ATLANTIC

Ship/plant ID: 9382085