



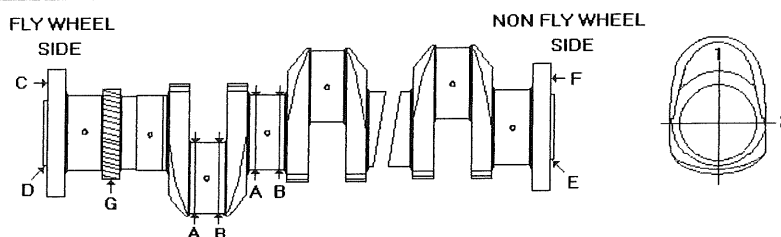
Customer : **Vestergaard Marine Service AS**
Havnepladsen 12
DK-9900 FREDERIKSHAVN
DENMARK

Reportnumber : **109087**
 Our Ordernr : **MVS13982-1**
 Reference :
 Installation (ship) :

Description : **Crankshaft Wartsila 16V32**

Measurement : **Deviation in 0,01 mm**

Initials : **74616 cylinder P.O.4040941 No.1 NR sidenor-spain 0-88426 F-74616 P-610 34CrNiMo6 det norske veritas DWG-OV1IA 0306B**
NV BBO-044569 06-05-04 NEW MARKS DET NORSKE VERITAS: Rep.DNV.Rot 030917-056 10/12



MAINJOURNALS

Nominal dim. : mm Standard dimension : **300 mm**

	1	2	3	4	5	6	7	8	9	10	11	12
A Position 1	-51½	-51	-51	-51	-52	-52	-51	-51	-51	-51		
Position 2	-51½	-51	-51	-51	-51	-52	-51	-51	-51	-51		
B Position 1	-51	-51	-51½	-51	-52	-52	-51	-51	-51	-51		
Position 2	-51	-51	-51½	-51	-51	-52	-51	-51	-51	-51		
Cracks found	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

EXCENTRICITY

	1	2	3	4	5	6	7	8	9	10	11	12
Centers	1½	2	3	4	4	3½	4	4	2½	1½		
Supported												

Eccentr. flanges and gearwheel location

C	D	E	F	G
2	1	1	1½	

CRANKPINS

Nominal dim. : mm Standard dimension : **270 mm**

	1	2	3	4	5	6	7	8	9	10	11	12
A Position 1	-52½	-52½	-52	-52	-51½	-53	-51	-51½				
Position 2	-53	-52½	-52	-52	-52	-52½	-52	-52				
B Position 1	-52½	-52	-52	-51½	-51½	-53	-51	-52				
Position 2	-53	-52½	-52	-51½	-52	-52	-52	-52½				
Cracks found	NO	NO	NO	NO	NO	NO	NO	NO				

Crack testing : **NO CRACKS** have been found, inspected by means of Magnetic test

Hardness : **284HB**

Width Thrust : **122,000 mm**

Remarks : **all mainjournals are ground 0,5 mm undersize, all crankpins are ground 0,5 mm undersize, axial thrustbearing faced on both sides**

Date measured **17-10-2012**

Place: **Schiedam**

Stgn:



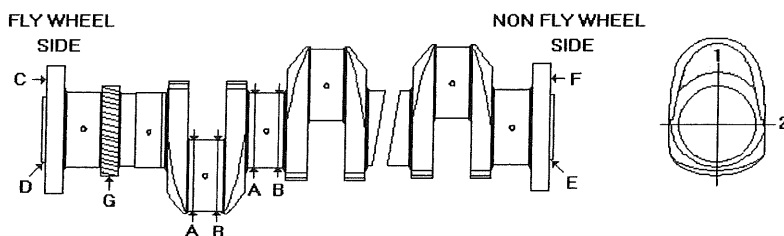
Customer : **Vestergaard Marine Service AS**
Havnepladsen 12
DK-9900 FREDERIKSHAVN
DENMARK

Reportnumber : **108934**
 Our Ordernr : **MVS13982-1**
 Reference :
 Installation (ship) :

Description : **Crankshaft Wartsila 16V32**

Measurement : **Deviation in 0,01 mm**

Initials : **74616 cylinder P.O.4040941 No.1 NR sidenor-spain 0-88426 F-74616 P-610 34CrNiMo6 det norske veritas DWG-OVIIA 0306B NV BBO-044569 06-05-04**



MAINJOURNALS

Nominal dim. :	mm											Standard dimension :	300 mm
	1	2	3	4	5	6	7	8	9	10	11	12	
A Position 1	-1½	-1	-1	-½	-1	-½	-1	-½	-½	-1			
Position 2	-2	-2	-1	-1½	-1½	-1½	-1½	-1	-1½	-1½			
B Position 1	-1½	-1	-1	-½	-1	-½	-1	-½	-½	-½			
Position 2	-1½	-1½	-1	-½	-2	-2	-1½	-1½	-2	-2			
Cracks found	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO			

EXCENTRICITY

	1	2	3	4	5	6	7	8	9	10	11	12
Centers	15	15	14	15	15	11	9	9	7	9		
Supported												

Eccentr. flanges and gearwheel location

C	D	E	F	G
	18	10		

CRANKPINS

Nominal dim. :	mm											Standard dimension :	270 mm
	1	2	3	4	5	6	7	8	9	10	11	12	
A Position 1	-3	-3	-2	-2½	-2	-3	-3	-3					
Position 2	-2	-3	-3	-2½	-2½	-3	-3	-4					
B Position 1	-3	-3	-2	-2	-3	-2	-2	-3					
Position 2	-3	-3	-3	-2	-2½	-3	-3	-3					
Cracks found	NO	NO	NO	NO	NO	NO	NO	NO					

Crack testing : **NO CRACKS** have been found, inspected by means of Magnetic test

Hardness : **284HB**

Width Thrust : **122,000 mm**

Remarks : **no cracks have been found, all journals show minor to severe runningmarks, watermarks and are slightly worn, thrustbearingplace shows watermarks**

Date measured **05-09-2012**

Place: **Schiedam**

Sign: _____