



TECHNICAL CIRCULAR No. 331 of 06<sup>TH</sup> April 2016

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To:	All Surveyors/Auditors
Applicable to flag:	All Flags
Subject:	<b>Tailshaft-Survey and Extension</b>
Reference:	<b>CONARINA Class</b>

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### **Tailshaft-Survey and Extension**

There are now 4 methods for conducting the Tailshaft survey

- Simplified as Methods 1, 2, 3 & 4
- Closed loop water lubricated systems treated same as oil lubricated

- Method 1: Draw out the shaft
- Method 2: Bump the propeller, with NDE and visual examination
- Method 3: Visual examination and record review
- Method 4: Draw out the shaft and examine everything

#### **Method 1: Draw out the shaft**

- Drawing the shaft and examining entire shaft, seals & bearings.
- Checking and recording the bearing clearances.
- Verification the propeller is free of damages.
- Bearing inboard seal assemblies to be externally examined.
- Bearing outboard seals are to be renewed and seal liner to be found or placed in satisfactory condition.
- Bearing wear down recorded.

#### **Method 2: Bump the propeller, with NDE and visual examination**

- Removing the propeller to expose the forward end of the taper.
- Checking and recording bearing wear down measurements.
- Visual inspection of all accessible parts of the shafting system.
- Verification the propeller is free from damages.
- Seal liner to be in satisfactory condition
- Inboard seal assemblies externally examined.
- Outboard seals to be renewed.
- A review of the service records

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**Method 3: Visual examination and record review**

- Checking and recording the bearing wear down measurements.
- Visual inspection of accessible parts of shafting system & propeller.
- Seal liner to be in satisfactory condition.
- Verification of the satisfactory conditions of inboard & outboard seals; however we consider that satisfactory for the outboard seal will also require documentation from the manufacturer advising that the seal life is good for the next 5 year period.
- Review of test records (LO Analysis, FW Sample test)
- Review of service records.

**Method 4: Draw out the shaft and examine everything (water lubricated)**

- Drawing out the shaft and examine entire shaft.
- Checking and recording the bearing clearances.
- Verification the propeller is free of damages.
- Verification of the satisfactory conditions of the inboard seal during reinstallation of shaft and propeller.

**Tailshaft survey extension:**

	<b>Oil Lubricated</b>	<b>Closed Loop Fresh Water Lubricated</b>	<b>Water Lubricated</b>	<b>Water Lubricated Single Screw</b>
Method 1	Every 15 years (Method 1 or Method 2)	Every 5 years	N/A	N/A
Method 2	Every 15 years (Method 1 or Method 2)	Every 5 years *	N/A	N/A
Method 3	Every 5 years *	Every 5 years **	N/A	N/A
Method 4	N/A	N/A	Every 5 years	Every 3 years
Extension 3 months	Allowed	Allowed	Allowed	Allowed
Extension 1 year	Allowed	Allowed	Allowed	Allowed

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Extension 2.5years	Allowed	Allowed	N/A	N/A
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\*Providing previous survey (Method 1) not exceeding 15 years.

\*\* Providing previous survey (Method 1 or Method 2) not exceeding 15 years.

REFERENCES:

- **CONARINA Class**

ATTACHMENTS: No.

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