

DATE: 10/12/2015	MARINE SAFETY BULLETIN: 04/15US
	PRIORITY LEVEL: HIGH

**EQUIPMENT: TECNIMPIANTI Winches - see attached detailed list for types and ships**

Items: "Main transmission chain", "brake shaft sprocket gear" and "tank epicyclical gearbox "

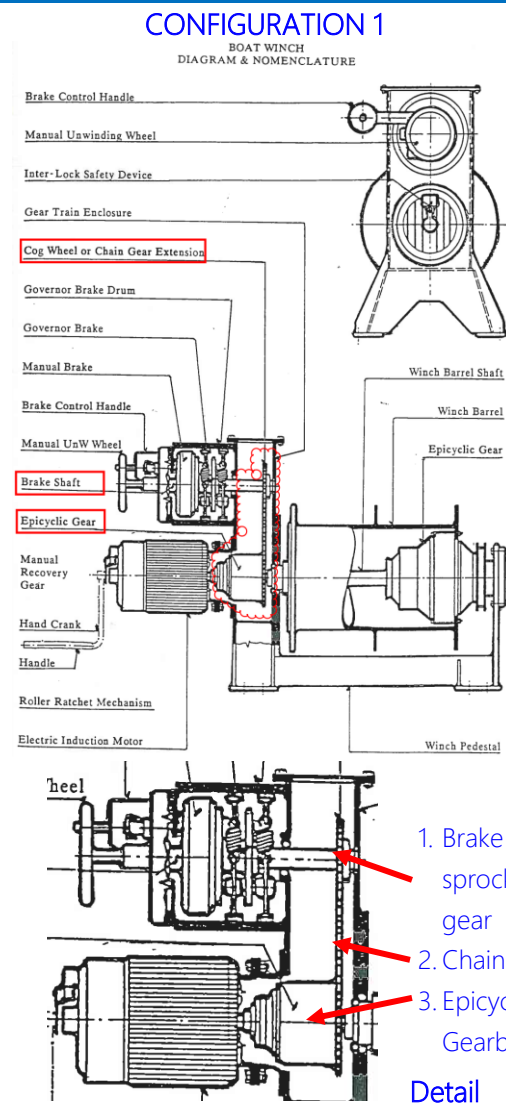
**INSTRUCTIONS VALIDITY AND APPLICABILITY:**

- **Applicability:** immediate.  
The instruction of this Marine Safety Bulletin supersedes any other previous instruction in: OMM, Service Instructions, Service Manuals, and any other instruction in written or verbal version related to the interval of replacement of the "main transmission chain", "brake shaft sprocket gear", and "tank epicyclical gearbox" of any and every winch of the above type.
- **Starting date:** Date of issue of the present bulletin (The reference for the main transmission chain life to the date of commissioning / to the date of the last replacement whichever is the latest.
- **End date:** This bulletin will not expire unless specifically mentioned in an updated version.
- **Vessel:** All vessels with Tecnimpianti LSA's Winches with any combination of "Main transmission chain", "brake shaft sprocket gear" and " tank epicyclical gearbox"

**BULLETIN CONTENT AND CLARIFICATIONS:**

The clarification and instruction of this Bulletin applies to all inspections on every Lifeboat / Tender / Rescue boats LSA's Station built by Tecnimpianti S.p.A. where installed one winch of the type listed in annex. The main gearbox unit has been designed to operate on heavy duty application, as on Tender boats, with maintenance on long time interval. The main gearbox unit cinematic chain can have one of the following configurations:

1. an epicyclical gearbox used in "Y" configuration that includes #3 mechanical connections:
  - In shaft, from the electric motor
  - Out shaft to the drum gearbox
  - Casing sprocket gear that connects the brake shaft via the main transmission chain.
2. an epicyclical gearbox used in "Y" configuration that includes #3 mechanical connections:
  - In shaft, from the electric motor
  - Out shaft to the drum gearbox
  - Casing gear that connects the brake shaft via set of gears.
3. an epicyclical gearbox used in "Y" configuration that includes #3 mechanical connections:
  - In shaft, from the electric motor



- Out shaft to the brake mechanism
- Casing gear that connects to the drum gearbox shaft via set of gears.

No one unit has failed prior than 11 years of operating life.

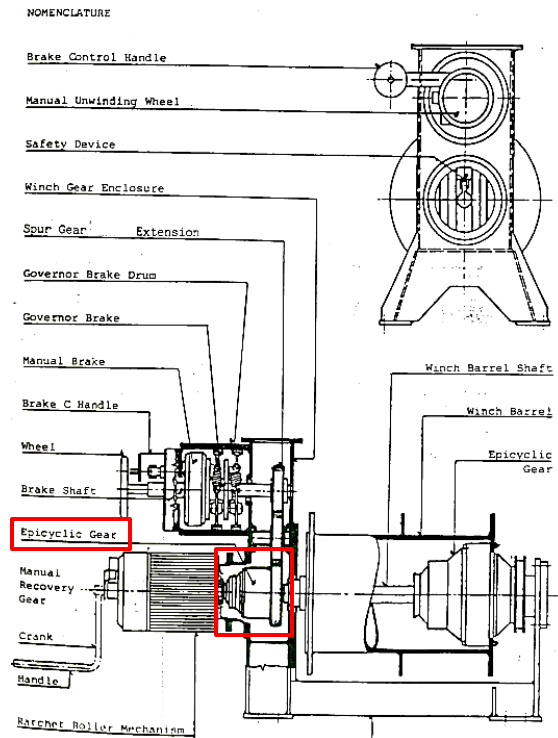
The present yearly interval of inspection tests the integrity of the whole main transmission chain because foresees:

- The yearly opening and inspection of the main gearbox to observe the status of the components of the cinematic chain.
- The winch performance test (braking capacity); at each yearly inspection.
- The winch performance test (dynamic overload braking capacity); at each 5 year inspection.

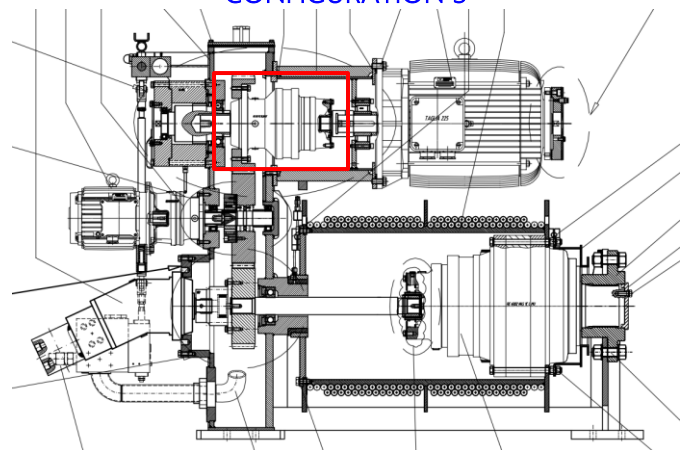
It is mandatory to replace every 10 years according to the winch configuration the following parts:

- Configuration 1:
  - Tank epicyclical gearbox.
  - Main transmission chain.
  - Brake shaft sprocket gear.
- Configurations 2 and 3
  - Tank epicyclical gearbox.

### CONFIGURATION 2



### CONFIGURATION 3



#### REFERENCE:

Winch: main transmission chain, brake shaft sprocket gear and tank epicyclical gearbox replacement interval.

#### DISTRIBUTION:

All IACS members and all companies having Tecnimpianti LSA Winches listed in annex and all Navalimpianti Tecnimpianti Group Certified LSA Service Engineers.

#### EXTRA OPERATING SAFETY INSTRUCTIONS:

None, not applicable.

Annex - List of winch types and ships

Known Owner	IMO No	Ship name	Q.ty installed	Year of delivery	Winch type
P&O	8521220	Pacific Jewel	8	1990	3-38-18
P&O	8521220	Pacific Jewel	4	1990	3-58-09
P&O	8521220	Pacific Jewel	2	1990	3-22-14
P&O	8521232	Pacific Dawn	8	1991	3-38-18
P&O	8521232	Pacific Dawn	4	1991	3-58-09
P&O	8521232	Pacific Dawn	2	2007	EW10
Costa Cruise Line	8716502	Costa Classica	8	1991	2-38-10
Costa Cruise Line	8716502	Costa Classica	4	1991	2-58-11
Costa Cruise Line	8716502	Costa Classica	2	1991	2-22-13
Holland American Line	8919245	Statendam	6	1993	2-38-10
Holland American Line	8919245	Statendam	4	1993	2-38-11
Holland American Line	8919245	Statendam	2	1993	2-22-13
Holland American Line	8919257	Maasdam	6	1993	2-38-11
Holland American Line	8919257	Maasdam	4	1993	2-38-10
Holland American Line	8919257	Maasdam	2	1993	2-22-13
Costa Cruise Line	8821046	Costa NeoRomantica	8	1993	2-38-10
Costa Cruise Line	8821046	Costa NeoRomantica	4	1993	2-58-11
Costa Cruise Line	8821046	Costa NeoRomantica	2	1993	2-22-13
Holland American Line	8919269	Ryndam	6	1994	2-38-11
Holland American Line	8919269	Ryndam	4	1994	2-38-10
Holland American Line	8919269	Ryndam	2	1994	2-22-13
Princess Cruises	9000259	Sun Princess	10	1995	3-38-18
Princess Cruises	9000259	Sun Princess	2	1995	3-38-18
Princess Cruises	9000259	Sun Princess	4	1995	3-58-15
Holland American Line	9102992	Veendam	6	1996	2-38-10
Holland American Line	9102992	Veendam	4	1996	2-38-11
Holland American Line	9102992	Veendam	2	1996	2-22-13
Carnival Cruise Lines	9070058	Carnival Sunshine	18	1996	2-38-11
Carnival Cruise Lines	9070058	Carnival Sunshine	2	1996	2-22-13
Carnival Cruise Lines	9070058	Carnival Sunshine	4	2013	SDHW 200
Princess Cruises	9103996	Dawn Princess	10	1997	3-38-18
Princess Cruises	9103996	Dawn Princess	2	1997	3-38-18
Princess Cruises	9103996	Dawn Princess	4	1997	3-58-15
Holland American Line	9122552	Rotterdam VI	6	1997	2-38-10
Holland American Line	9122552	Rotterdam VI	4	1997	3-58-15
Holland American Line	9122552	Rotterdam VI	4	1997	2-22-13
Holland American Line	9221279	Zuiderdam	10	2002	EW10
Holland American Line	9221281	Oosterdam	10	2003	EW10
Holland American Line	9226891	Westerdam	10	2004	EW10
P&O- Cunard	9226906	Arcadia	12	2005	EW10
Holland American Line	9230115	Noordam	10	2006	EW10

Known Owner	IMO No	Ship name	Q.ty installed	Year of delivery	Winch type
Holland American Line	9378448	Eurodam	12	2008	EW10
Costa Cruise Line	9398905	Costa Luminosa	2	2009	SDHW50
Costa Cruise Line	9398917	Costa Deliziosa	2	2010	SDHW50
Holland American Line	9378450	Niew Amsterdam	12	2010	EW10
Oceania	9438066	Oceania Marina	6	2008	SDHW-93
Oceania	9438066	Oceania Marina	4	2008	SDHW-140
Oceania	9438066	Oceania Marina	2	2008	EWR6
Oceania	9438078	Oceania Riviera	6	2008	SDHW-93
Oceania	9438078	Oceania Riviera	4	2008	SDHW-140
Oceania	9438078	Oceania Riviera	2	2008	EWR6