

Assessment Report

Prepared for

USCG Surface Forces Logistics Center



CGC HEALY

(WAGB-20)

4/4/2011-4/8/2011

Science Winch System Assessment

Submitted by:





CGC Healy:

April 4, 2011

Arrived onboard the vessel at 0730. After signing in and talking to the EOW, we were shown the winch room and the main science lab, where we set up our computers and researched the proper procedures to static test the winch foundations and the sheave foundations. There were conflicting ways of performing the tests. We then searched for the materials needed to perform the tests referenced in the statement of work.

April 5, 2011.

After setting up and starting the inspection of the three (3) science winches. Our inspection included all that was reported in the CFR's, and the normal groom inspections.

Oil levels, oil quality, and roller chain lubrication and tension were checked. We also inspected brake bands, surfaces, pivot points, and air fittings on the brake cylinders. The winches were operated to ensure the direction control, speed, brake functions, and level wind tracking which were all sat. We inspected all the roller bearings and pillow blocks.

The winches all are in good condition. They will require some minor maintenance items to be taken care of before static testing.

The work of static testing the foundations and mounted sheaves is being arranged for as soon as the proper procedures are received from the Coast Guard.

April 6, 2011

Removed covers off all winches and inspected lubrication and tension on all roller chains.

Disassembled the level wind carriages to check the wear on the shuttles, and the automatic lubrication system.

Searched the warehouse and located the correct sheave inserts for the static test. Changed all the O/C sheaves to proof test sheave inserts.

Noted that the computer program to run the system was corrupt and was in need of reload. The ship's force was correcting the problem, and was preventing the system from running.



April 7, 2011

Ships force continued working on the download. The winches were lit off and operated at the local stations. Testing continued on the speed control, the level wind tracking, E-Brake, and the couplings. Then control was transferred to the aft conning tower. The controls were tested from there. The sheave inserts were changed back to the original sizes and positions. We compiled a short list of conditions found and departed the ship.

April 8, 2011

We departed Seattle earlier than planned.

Draft reports were e-mailed to Lt. jg. Chris Skapin.



Condition Found Report

Report Number	Healy-001
Date:	4/4/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	O/C 1 and 2, Trawl/Core
Location:	Winch Room

Condition Found:	<p>Upon reporting onboard on Monday morning, the EOW directed us to the winch room and directed us to all the controls. We started to inspect and direct what we would need for the week. We were informed the prior contractor used a synthetic rope to test the Trawl/Core winch, and the ship has a coil of 9/16" test wire for the O/C winches. Tech pub procedures requires 300 meter x 1" test wire for the T/C winch. No synthetic rope was located onboard Healy and the coil of 9/16" is only 100 feet long. Nor did we find any 1" wire for testing.</p>
Recommendation:	
Signed:	

Condition Found Report

Report Number	Healy-002
Date:	4/5/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	O/C 1 and 2, Trawl/Core
Location:	Winch Room



Condition Found:	All the Level wind Shuttles were removed cleaned and checked for wear.
	All the shuttles were found to be in good shape.
	All were cleaned again, greased and reinstalled.
Signed:	

Condition Found Report

Report Number	Healy-003
Date:	4/5/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	Trawl/Core
Location:	Winch Room



Condition Found:	The automatic lubricator on the core winch, the bowl is full of water and sludge. It also shows signs that it may be cracked.
Recommendation:	Remove the bowl on the lubricator, disassemble the hoses and connections and clean them all of the sludge and old hard grease. If the bowl is cracked and broken it should be replaced. Trawl/Core Winch Automatic Grease Lubricator System Grease Ram Pump MFG. P/N 82886-H
Signed:	

Condition Found Report

Report Number	Healy-004
Date:	4/5/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	Trawl/Core
Location:	Winch Room



Condition Found:	The air fitting on the air brake is broken and leaks, not allowing the brake to hold.

Recommendation:	Check all the fitting for tightness and test, if it is still leaking then replace the fittings to the brake cylinder.

Signed:	
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Condition Found Report

Report Number	Healy-005
Date:	4/5/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	Trawl/Core Winch Motor
Location:	Winch Room



Condition Found:	It was found that the electrical connection enclosure on the main motor on the Trawl/Core winch has been exposed to salt water. The box is corroded and the surface paint has peeled off.

Recommendation:	After Tag-Out and Lock-Out of the Trawl/Core winch controller and power supply. Disassemble the whole enclosure and inspect it. It may only have to be cleaned and preserved. Or replacement of the enclosure may be needed.

Signed:	
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Condition Found Report

Report Number	Healy-006
Date:	4/4/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	O/C 420 LPR Flag block
Location:	Winch Room



Condition Found:	The flag block off of the O/C winch has a coating failure on the interior.

Recommendation:	Preservation has failed on the flag block. Power tool old coating and preserve with approved coating IAW with Coating and Color Manual (COMDTINST M10360.3 series)

Signed:	
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Condition Found Report

Report Number	Healy-007
Date:	4/5/2011
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	Sheave Centers
Location:	Winch Room



Condition Found:	Sheave centers where the inserts are attached have excess corrosion.
Recommendation:	Remove all the inserts and wire brush or power tool clean all flaking rust. Coat all bolts and nuts with an anti seize compound to prevent the corrosion of the bolts. Also coat all unprotected surfaces.
Signed:	

Condition Found Report

Report Number	Healy-008
Date:	
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	All Controllers
Location:	Winch Room



Condition Found:	<p>Upon operational testing of the three winches, it was found that the winches could only be operated in local control. Ship's force corrected the problem and the controls were transferred and all winches operated in remote control.</p> <p style="text-align: center;">All winches operated satisfactory.</p>
Recommendation:	
Signed:	

Condition Found Report

Report Number	Healy-009
Date:	
Vessel:	CGC Healy
Contract Number:	HSCG85-11-P-P30BX4
Equipment Affected:	Decks under O/C #2 and Trawl/Core Winch
Location:	Winch Room



Condition Found:	
	The deck plating is corroding and rusting under the T/C and O/C #2 winch

Recommendation:	
	Recommend power tool cleaning and preserving deck IAW COMDTINST M10360.3 (series)

Signed:	
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