

GEARBOX TYPE PERFORMANCE CERTIFICATE
IW RANGE: Continuous Submergence Sealing**CS TEST RECORD**

TEST NO	T 1457	PASS / FAIL	Pass
GEARBOX SIZE	IW 5 / IR 1	TEST ENGINEER	H Block / B Preston
GEARBOX RATIO	80:1	DATE	20 January 2011
GEARBOX RATING	6670 Nm	INPUT SPEED	Hand wound
WORM WHEEL MATERIAL	SNG 700-2	WORM SHAFT MATERIAL	Standard
THRUST BEARING TYPE	HMC	LUBRICATION	CL 2X

PURPOSE OF TEST To confirm that an range IW gearbox to latest standard build stays leak free when submerged for an indefinite period of time

SPECIAL REQUIREMENTS The IW5 gearbox is placed inside an open tank; no-load operating torque is checked at intervals spanning several months. Stop screw removed at inspection interval to ascertain if water ingress has occurred.

EQUIPMENT USED PVC submergence tank.
Norbar SL3 torque wrench.

RESULTS OF TEST Test started on the 21st January 2011.
Inspections:

1. 8th June 2011. 1Nm no load input torque. No water ingress.
2. 12th January 2012. 1.5Nm no load input torque. No water ingress.
3. 12th April 2012. 2Nm no load input torque. No water ingress.
4. 12th July 2012. 2Nm no load input torque. No water ingress.

CONCLUSION This test verifies that the IW range of gearboxes is appropriately sealed for submergence for a duration in excess of 538 days.

Signed:



30th July 2012

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