

SURVEY REPORT No: H14-512Q

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THIS IS TO CERTIFY, that at the request of Advantage Plastics, New Zealand, the undersigned Marine Surveyor on the 11/04/14 attended the dinghy:

"SMARTWAVE SW4200"

At Smiths Creek, Cairns, Queensland for the purpose of carrying out a swamp test in accordance with NSCV C6B Annex E.

Weights used to simulate outboard motor, batteries and engine controls were 25 kg lead ingots. Total weight added 125 kg as per maximum engine weight from Australian Builders Plate. Passenger simulation weights were 25 kg lead ingots, 8 weights were used to simulate 50% of 5 persons (assumed to be 80kg each) as per table E.2 (W1). 2 weights were added for 25% of additional weight difference as per table E.2 (W2).Vessel was prepared as per E5 (a-c) Sea state was calm with 10 knots of wind.



1. Ships Particulars;

: Smartwave SW4200, versions open boat and
Centre console.
: Advantage Plastics, New Zealand
: SW4200 open boat.
: 4.30 m
: 1.93 m
: 0.83 m
: 220 kg
: Moulded Polyethylene
: 50 HP (36.77 kW), 105 kg
: 5 persons, 450 kg
: 580 kg
: 0.74 M3 of polyurethane foam

2. Results: 2.1 Symmetrical fully-laden condition;

Note; To achieve water flowing freely into the vessel across the transom, 2 persons (80 kg) in addition to fully laden test weights were required to stand on the transom

Table 33;LFa1 maximum angle of heel was 1 degreeLFa2 Reference area above the surface of the waterLFa3 Nil reference area points immersed





Symmetrical fully laden test

Symmetrical fully laden test

2.2 Unsymmetrical partially-laden condition;

Table 33;LFb1 Reference area above the surface of the waterLFb2 Nil reference area points immersedLFb3 maximum angle of heel was 5 degrees



Unsymmetrical partially laden condition test

2.3 Symmetrical light condition;

Table 33;LFc1 maximum angle of heel was 2 degreesLFc2Reference area above the surface of the waterLFc3Nil reference area points immersed





Symmetrical light condition test

Symmetrical light condition test

Positive flotation statement # PF39954 was issued.



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This report is made without prejudice and is conscientiously believed to be true and accurate.