

VALE COMMENT ON IO 159 Girolando Express Darwin to Brunei and Malaysia July 2019

Loading

IO SUMMARY: The pens which held the heavier bulls were observed to be initially overstocked as there was limited room for them to easily move around and access feed troughs. Adjustments to pen densities were made on day 3 once they had settled enough to be moved. *With the additional space the animals appeared to be visibly more comfortable and had improved access to feed and water.*

VALE COMMENT: IO noted increased comfort and food access with increased space meaning there were essentially some animal welfare issues for >2 days with potential water and food issues

Ventilation

IO SUMMARY: Mild to warm temperatures combined with an effective ventilation system provided comfortable environmental conditions for the livestock that were adapted to tropical conditions.....*Bos taurus* cattle were the only livestock exhibiting a panting score more than zero during the voyage. The panting score was observed to be 1 (slight panting with some increased respiratory rate, closed mouth breathing) around the equatorial region.

Temperatures were recorded daily at 9:00am initially, then later on at 10:30am using a hand held device. Wet bulb temperatures began at 24°C after departing Darwin and climbed to 28 °C on days 6 -9 with all three livestock decks recorded at 29°C on the final day.

VALE COMMENT: mild heat stress present in *Bos taurus* as expected with these WBT.

Discharge

IO SUMMARY: No animal welfare issues were observed during discharge operations. Some delays were experienced due to truck availability and with the cattle moving slowly from the vessel to the unloading ramp.

VALE COMMENT: delayed unloading frequently noted for SE Asian ports.

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Representative photographs of the voyage

Day 2 Cattle in pen - no issues identified

Day 4 Cattle in pen - no issues identified

Day 6 Cattle in pen - no issues identified

Day 8 Cattle in pen - no issues identified

Day 9 Buffalo in pen - no issues identified

Day 5 Buffalo in pen - no issues identified