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To: DOMESTIC/EXPORT SALES/WORKSHOP/ENGINEERING
LIQUIP DISTRIBUTORS

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Subject: TECH TALK NO: 47

DIP STICK ACCURACY REQUIREMENTS
- AUSTRALIA. REF NSC 9/0/B
EXTRACTS RELEVANT TO DIPTRONIC

Location. The dip stick shall be located in the centroid of the compartment.

It shall be perpendicular to the tank axis within 3°.

Diptronic may be used with or without an existing dip tube.

Markings. A top-datum dip stick (Diptronic) shall have a 150mm reference line scribed 150mm from the body flange-face and the words "REF 150mm" engraved adjacent.

Diptronic housing to be marked with Tank Number and Compartment Number.

Front compartment (nearest to cab) is No. 1.

Diptronic mounting pad to be marked with compartment number, this marking to be 10mm high numbers.

Accuracy Requirement. * Compartments between 2,500 L and 5,000 L.

To be ± 10 litres.

Typically, at top and bottom, 10 litres ≡ 6.0mm

at tank centre height, 10 litres ≡ 2.5mm

* Compartments between 5,000 L and 12,000 L.

To be ± 25 litres.

Typically, at top and bottom, 25 litres \equiv 6.5mm

at tank centre height, 25 litres \equiv 4.0mm

In addition, a tilt of the vehicle forwards, backwards or sideways to an angle of 1 in 30 (2 degrees) shall not change the reading from when it was level by more than the litres accuracy shown above.

All the other requirements in 9/0/B are assumed to also apply to Diptronic.

Remember that some rail cars are calibrated with internal valves closed.

There is no statement in legislation covering a “Minimum Delivery” off a dip stick.