

ULTRASONIC THICKNESS MEASUREMENT REPORT (UTTM)



Project	: CF Renewal	Report No	:UTTM/26/ER/32626
Client	: ERICSON RESOURCE COMPETENCE CENTRE	Date of Inspection	: 14/3/2026
Site Location	9 Jalan Tiang U8/92, Seksyen U8, Bukit Jelutong Industrial Park 40150 Shah Alam, Selangor		Procedure No :UT/Proc/01

Equipment Details

Manufacturer	:Krautkramer	Model	: DMS2
Couplant used	: Sonagel & paste	Serial Number	: 01206N
Calibration Block	: Step wedge & V2	Gain reference level	: 1st Echo FSH 80%
Test Range	: 25 mm	Reject setting	: OFF
Probe Used	: HT400A		

Specimen / Item Inspected

Type of Item	: Air Compressor	Item Identification	: PMT 32626
Material	: A 516 Gr 60	Design Pressure	: 145 psi
Surface Condition	: Smooth	Outside Diameter	: 24.25 inch

RESULT

Location / Direction		0°	90°	180°	270°	Minimum thickness	Required Thickness	Remarks
HEAD	Top Head	5.1	5.5	5.1	5.1	5.10	1.50	Acceptable
	Bottom Head	5.0	5.0	5.0	5.0	5.00	1.50	Acceptable
SHELL	Shell 1	6.00	6.00	6.10	6.00	6.00	3.18	Acceptable
	Shell 2							

Result & Conclusion

Calculation has been made according to UT data obtained on 14/3/2026. Based on the calculation the minimum current thickness (6.0 mm) is higher than minimum required thickness (3.18 mm). Therefore, the vessel is **FIT FOR SERVICE** at design pressure.

CORROSION RATES & REMAINING LIFE

Corrosion rate, CR

Shell

$$= \frac{T_{initial} - T_{actual}}{Time(year)}$$

$$= (6-6)/13$$

$$= 0 \text{ mm/year}$$

* using generic corrosion rate as per API 571 (0.125 mm/year)

Remaining life, RL

The remaining life of the vessel (in years) shall be calculated from the following formula:

Shell

$$RL = \frac{T_{actual} - t_{req}}{CR}$$

T_{actual} 6.00 mm

$T_{required}$ 3.18 mm

CR 0.125 mm/year

Remaining life,RL 22.59 years

Interval inspection 10.00 years

Measured & reported by:



Tn. Arif
Date: 14/03/2026

Reviewed by:



Syukri
Date: 16/03/2026

Verified by:



Shalihin
Date: 17/03/2026

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ATTACHMENT

