

Client:	Omni United (S) Pte Ltd (PREPAY)	Quote Number:	25-1002932BT
Tracking Number:	2503629	Client Part Number:	NA
Test Description:	Plunger Energy	Client Project #:	NA

LABORATORY TEST REPORT - Plunger Energy

GENERAL INFORMATION

Test Type:	Plunger	Test Number:	TRL-25-1403
Client Test Spec.:	FMVSS 119	Date Received:	4/23/2025
PO Number:	NA	Retread:	No
Wheel Size:	20x10.0 J (2407750)		

TIRE LABELING INFORMATION

Tire Brand:	AVIX	Load Index:	125
Tire Name:	TRAILTEK R/T	Speed Symbol:	Q
Tire Size:	35X12.50R20LT	Max Infl. (single):	80 PSI 550 kPa
DOT No.:	00K XY6UVL 4824	Max Infl. (dual):	NA NA
Construction:	R	Max. Load (single):	3640 lbs 1650 kg
Tube Type:	TL	Max. Load (dual):	NA NA
Load Range:	F	Regroovable:	NA
Ply Rating:	12	Treadwear Indicator:	Yes
No. Plies on S.W.:	3	Sidewall Color:	BW
No. Plies of Tread:	7	Street/Deep Tread:	ST
Max Speed:	NA	Temperature:	NA
Carc. Cord Matrl:	POLY	Treadwear:	NA
Belt Cord Matrl:	POLY,STL,NYL	Traction:	NA

PRETEST INSPECTIONS

Beads: No Visible Defects	Innerliner: No Visible Defects
Sidewall: No Visible Defects	Tread: No Visible Defects

DOT / TIN INFORMATION

	Inboard Side	Outboard Side	Meets Requirement
DOT	Yes	Yes	Yes
TIN	Partial	Full	Yes
Alpine Symbol	No	No	NA

CONDITIONING

	Date	Time	Pressure (PSI)	Temperature (°F)
Start	30-Apr-25	22:49	80.0	72.0
End	2-May-25	7:15	83.3	72.0
Conditioning Hours		32.43		

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Test Setup Parameters
Wheel Size: 20x10.0 J (2407750)

Plunger Diameter (in): 0.75

Test Inflation Pressure: 80 PSI

Air Gauge #: 136

Plunger Energy Measurement Results

Run #	Force		Displacement		Energy		Comments
	(lbs)	(N)	(inch)	(mm)	(in-lbs)	(Joules)	
1	3,854	17,141	3.24	82.3	6,243	705.3	Breaking Point
2	4,055	18,036	3.33	84.6	6,751	762.8	Breaking Point
3	4,001	17,796	3.33	84.6	6,661	752.6	Breaking Point
4	3,830	17,035	3.20	81.3	6,127	692.3	Breaking Point
5	4,195	18,660	3.36	85.3	7,048	796.3	Breaking Point
Average Energy Runs	-	-	-	-	-	-	
Average Breaking Runs	3,987	17,734	3.29	83.6	6,566	741.9	
Average All Runs	3,987	17,734	3.29	83.6	6,566	741.9	

Required Minimum Energy: 5,700 in-lbs 644.0 Joules

Average Energy All Runs: 6,566 in-lbs 741.9 Joules

Minimum Energy Met: YES -- MINIMUM ENERGY EXCEEDED

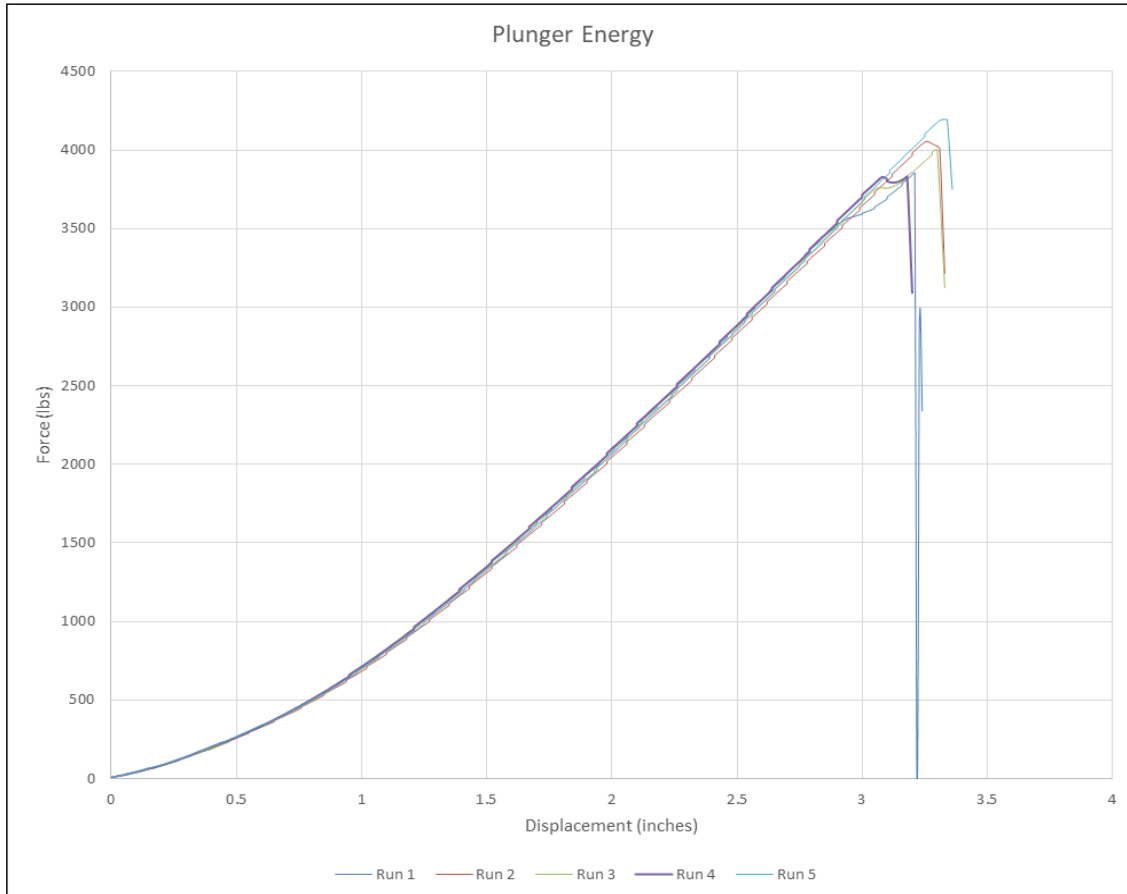
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This report has been prepared for
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Date: 5/9/2025
Engineering Comments:

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Plunger Chart of Runs
Figure 1