



TEREX
DIESEL

FACTORY TEST REPORT

Full-Load Test — Diesel Generating Set

TEREX DIESEL MAKİNA ENERJİ SANAYİ TİCARET LTD. ŞTİ.

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REPORT DETAILS

Date / Time	01.08.2026 — 14:00
Test No	T1
Customer	
Product Serial No	
Warranty Serial No	
Engine Serial No	
Alternator Serial No	
Single-Line / Wiring Diagram No	

GENERATING SET

Model	TRX SD TA 0900
Type	Automatic, canopied
Standby rating	900 kVA / 720 kW
Prime rating	818 kVA / 654.4 kW
Voltage / Frequency	230/400 V — 50 Hz
Speed / Power factor	1500 rpm — pf 0.8
Rated current (standby / prime)	1299 A / 1181 A
Weight (canopied / open)	8,500 kg / 8,100 kg
Dimensions (canopied, L×W×H)	4500 × 2200 × 3200 mm

ENGINE

Make / Model	SDEC 6KTAA25
Cylinders / Displacement	6 cylinders — 25.18 L
Aspiration	Turbocharged, air-to-air charge cooled
Fuel / Lubricant	Diesel — 15W-40
Governor	Electronic
Cooling	Water cooled

ALTERNATOR

Make / Model	TEREX TA400-640N
Type	Synchronous, brushless, self-excited
AVR	MX341B
Protection / Insulation class	IP23 — Class H
Connection	Star (Y), neutral brought out
Short-circuit current	2.4 kA

TEST CONDITIONS

Load bank: Resistive, pf = 1

Ambient temperature: _____ °C

Duration per step: _____ min

Total test duration: _____ min

LOAD TEST RESULTS

Load	Power (kVA)	Power (kW)	Frequency (Hz)	Voltage L1-L2 / L2-L3 / L3-L1 (V)	Current (A)	Coolant temp. (°C)	Oil pressure (bar)
0%	0	0	50.0	400 / 400 / 400	0	10	6.9
25%	163.6	163.6	50.0	401 / 399 / 401	236	40	6.5
50%	327.2	327.2	49.9	400 / 399 / 400	472	60	5.2
75%	490.8	490.8	49.9	400 / 399 / 399	708	72	5.3
100%	654.4	654.4	50.1	400 / 400 / 399	945	81	4.2
110%	719.8	719.8	50.0	400 / 399 / 399	1,039	85	4.0

Percentages refer to the prime rating (818 kVA / 654.4 kW); load applied at pf = 1.

FUNCTION TESTS

Low oil pressure protection	Pass
High coolant temperature protection	Pass
Emergency stop	Pass
Voltage / frequency protection	Pass
Block heater	Pass
Battery charging alternator	Pass

ELECTRICAL SAFETY TESTS

Test	Test points	Result	Acceptance criterion	Method (as recorded)
High-voltage withstand (AC)	L1, L2, L3, N	Pass	Leakage ≤ 10 mA	1500 V AC, 60 s; test current 25 A
Insulation resistance	L1, L2, L3, N	Pass	≥ 1 MΩ	500 V DC megger, 60 s
Leakage current	L1, L2, L3, N	Pass	≤ 10 mA	500 V

Standard practice (for reference): Insulation resistance is measured with a 500 V DC megger for 60 s; acceptance ≥ 1 MΩ. No unmeasured value is stated in this report.

REMARKS

Tested on a resistive load bank (pf = 1). This is a sample report; customer, serial numbers and signatures are completed on actual delivery.

TEST OPERATOR

Name / Signature / Date

QUALITY CONTROL

Name / Signature / Date