Load test · Engine or power pack · Illustrative parameters

Engine load test record

Sample — every parameter on this page is illustrative. This is one possible evidence structure, not a statement that every engine or order receives this test. The proposal defines unit or sample coverage, duty points, witnessing, instruments, calibration evidence and required records.

Order reference SAMPLE-ORDER	**Works** Named in live record	**Test date** YYYY-MM-DD	**Witness** If included in scope
Engine model Offered model	**Serial / item ID** SAMPLE-ID	**Rating** Per ordered basis	**Duty basis** Per ordered basis
Governing Per configuration	**Cooling** Per configuration	**Electrical system** Per configuration	**Test stand** Identified if used

Load steps

Step	Load	Measured kW	Speed rpm	Oil press. kPa	Coolant °C	Exhaust °C	Min	Result
1	25 %	25.1	1502	428	76	182	15	**Pass**
2	50 %	50.3	1501	441	79	259	15	**Pass**
3	75 %	75.2	1500	449	82	338	15	**Pass**
4	100 %	100.4	1499	455	85	421	30	**Pass**
5	110 %	110.1	1497	458	88	452	5	**Pass**

Functional checks

Check	Criterion	Result
Cold start	Firing within 3 s, no aids above 5 °C	**Pass**
Governor response	Recovery within class limits on step load	**Pass**
Protection devices	Overspeed and low-oil-pressure shutdowns tripped and reset	**Pass**
Leak check	No fuel, oil or coolant leaks after full-load run	**Pass**
Charging alternator	Charging voltage within range at rated speed	**Pass**

Instruments and calibration

Instrument	Identification	Calibration certificate	Valid to
Dynamometer	DW-160 (sample)	CAL-2026-XXXX	—
Tachometer	DT-2234C (sample)	CAL-2026-XXXX	—
Thermocouple set	K-type, 4 ch (sample)	CAL-2026-XXXX	—
Pressure gauge	0–1000 kPa (sample)	CAL-2026-XXXX	—

Deviations and release conditions

None recorded on this illustrative sample. A live record should identify each deviation, the evidence required after correction or re-test, and the buyer decision or contractual authority needed before release. Fields that do not apply should be marked accordingly rather than left ambiguous.

Works QC	Witness (if included)	Date