TVR VIXEN (S1 / S2 / S3 / S4)

Engine: **1599cc Ford Kent Crossflow OHV Inline-4**
Chassis: **Tubular Steel Spaceframe w/ Bonded GRP Shell**

PRE-PURCHASE BUYER'S FIELD INSPECTION SHEET (1967–1973)

VEHICLE REGISTRATION	CHASSIS / VIN NUMBER	RECORDED MILEAGE	ASKING PRICE
.....	.....	.....	£ .....

1. CRITICAL STRUCTURAL & CHASSIS TRAPS

SPACEFRAME CHASSIS & GRP BODY

PASS	INSPECTION POINT	SPECIFIC WEAR INDICATOR & DEFECT SIGN
☐	**Multi-Tube Steel Spaceframe**	CRITICAL: Tubular steel spaceframe. Condensation and road spray rot the lower main rails, footwell outriggers, and rear suspension upright tubes internally.
☐	**Body-to-Chassis Bonding (S1 vs S2)**	S1 body is glassfibre-bonded to chassis tubes (body removal requires cutting); S2 onwards bolts to chassis tabs. Check for torn bonding seams and fiberglass cracking.
☐	**Rear Wishbone Pickup Nodes**	Independent rear suspension uses unequal-length wishbones. Check chassis pickup brackets and welded tube nodes for fatigue cracks and rust separation.
☐	**GRP Gelcoat & Stress Fractures**	Inspect bonnet cowl, door hinge pillars, and rear wheel arch swages for starburst crazing, micro-cracking, and heavy polyester filler from past track repairs.

2. MECHANICAL TRIAGE & RUNNING GEAR

COLD START TO OPERATING TEMP

PASS	SYSTEM / COMPONENT	TARGET TOLERANCES & OPERATIONAL CHECKS
☐	**Ford Kent 1.6L Crossflow Health** **Spec: 40–50 Cold | 20+ Hot**	Reliable iron-block crossflow. Check mechanical oil gauge. Listen for front timing chain rattle on cold startup; check crankcase breather for blue smoke under throttle.
☐	**Triumph Front Suspension Trunnions** **Lube: EP90 Oil ONLY**	Uses Triumph uprights and brass lower trunnions. If grease nipples are fitted and filled with grease instead of EP90 oil, threads starve and uprights can snap.
☐	**Ford 4-Speed Gearbox & Diff**	Ford single-rail or 2000E "bullet" gearbox. Check 2nd and 3rd synchros on rapid downshifts; listen for differential crown wheel whine on trailing throttle.
☐	**Cooling System & Nose Airflow**	Low nose ducting restricts radiator airflow. Check electric cooling fan operation, radiator matrix cleanliness, and check expansion tank for boiling after test drive.

Model & Series Verification: Chassis plate located in engine bay on firewall. Series breakdown: S1 (1967–68, 1150mm wheelbase); S2 (1968–70, longer chassis with bolt-on body); S3 (1970–72, Cortina rear lights); S4 (1972–73, M-Series chassis). Verify V5C tax-exempt status.

3. DEFECT LEDGER & NEGOTIATION DEDUCTIONS

UK MARKET BENCHMARKS

OBSERVED DEFECT / REQUIRED WORK	ESTIMATED UK REMEDY	DEDUCTION APPLIED
Corroded Tubular Spaceframe Rails & Chassis Restoration	£2,500 – £4,500 (Body lift & chassis jig repair)	£
Delaminated GRP Tub-to-Chassis Bonding / Mounts	£800 – £1,500 (Structural fibreglass repair)	£
Rear Suspension Wishbone Pickup Cracks & Polybushes	£550 – £850 (Chassis bracket welding & setup)	£
Grease-Contaminated Triumph Front Trunnions & Links	£280 – £420 (Pair links, trunnions & geometry)	£
TOTAL DEDUCTIONS FROM ASKING PRICE	MAX REVISED OFFER:	£