

# The 12-Point Compressor Inspection Checklist

## قائمة فحص الضاغط — 12 نقطة

Most compressor failures don't arrive without warning. They show up first as a number drifting, a temperature climbing, or a filter quietly loading up. This is the same **12-point inspection our engineers run on the floor** — the early-warning checks that separate a planned service from an unplanned shutdown. Walk your machine against it before the next breakdown finds you first.

One service relationship for every compressor on your floor — **Kaeser, Ingersoll Rand, Sullair, Boge, Atlas Copco**. The checks below apply to any rotary screw compressor, regardless of who made it.

■ OK — within normal range · سليم
 ■ Attention — monitor / plan · متابعة
 ■ Critical — act now · حرج

| #                                    | INSPECTION POINT · بند الفحص                                                                                                                                                                                                   | OK                          | ATT.                     | CRIT.                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------|
| <b>Lubrication &amp; air quality</b> |                                                                                                                                                                                                                                | <b>التزييت وجودة الهواء</b> |                          |                          |
| 1                                    | <b>Oil condition</b> حالة الزيت<br>Degraded or contaminated oil loses its lubricating film and accelerates air-end wear — colour, smell and viscosity warn you long before a failure does.                                     | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                                    | <b>Air filter restriction</b> انسداد فلتر الهواء<br>A clogging intake filter starves the element and forces the motor to work harder for the same air. Restriction shows up as wasted energy before it shows as lost pressure. | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                                    | <b>Oil filter pressure drop</b> هبوط الضغط عبر فلتر الزيت<br>A rising pressure drop means the oil filter is loading up. Left alone it eventually bypasses, sending unfiltered oil straight through the bearings.               | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                                    | <b>Oil-separator element</b> حالة عنصر فاصل الزيت<br>A saturated or splitting separator carries oil into your air line — contaminating product and downstream equipment — and quietly drives up running pressure.              | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Mechanical health</b>             |                                                                                                                                                                                                                                | <b>الحالة الميكانيكية</b>   |                          |                          |
| 5                                    | <b>Air-end vibration signature</b> بصمة اهتزاز وحدة الضغط<br>The air end is the most expensive part of the machine. A change in its vibration pattern is the earliest warning of bearing or rotor trouble.                     | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> |

| #                          | INSPECTION POINT · بند الفحص                                                                                                                                                                                          | OK                       | ATT.                     | CRIT.                    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| 6                          | <b>Bearing temperatures</b> درجات حرارة المحامل<br>Bearings run hot before they fail. Tracking their temperature catches a problem while it is still a bearing job — not an air-end replacement.                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7                          | <b>Discharge temperature trend</b> اتجاه درجة حرارة الخروج<br>A climbing discharge temperature points to cooling, oil or ambient trouble. It is the single best early indicator of a machine under stress.            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8                          | <b>Pressure regulation accuracy</b> دقة تنظيم الضغط<br>A compressor holding a wider pressure band than it should is quietly burning energy. Tightening regulation is often the cheapest efficiency gain on the floor. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>System &amp; safety</b> |                                                                                                                                                                                                                       | <b>المنظومة والأمان</b>  |                          |                          |
| 9                          | <b>Cooling system performance</b> أداء نظام التبريد<br>In Egyptian ambient heat, cooling is the first thing to limit a compressor. Blocked coolers and weak fans turn a hot day into a shutdown.                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10                         | <b>Drain valve operation</b> تشغيل صمام الصرف<br>A failed condensate drain either bleeds air continuously (wasting energy) or holds water in the system (corroding it). Both are common and both are cheap to fix.    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11                         | <b>Electrical connections &amp; panel</b> التوصيلات الكهربائية ولوحة التحكم<br>Loose terminals and a drifting controller cause nuisance trips and hide the machine's real data. A clean panel is a reliable panel.    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12                         | <b>Safety interlocks</b> وسائل الأمان والحماية<br>Interlocks and relief protection are what stand between a fault and an incident. They are checked last because they must never be assumed.                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Want this done properly — on any brand?

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Our engineers run the full 12-point inspection on-site and hand you a written report with a clear OK / Attention / Critical status for every point — plus the parts and service to fix whatever it finds. Brand-agnostic by design: we service every compressor on your floor, not just one make.

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**Book your 12-point inspection →**