



RIGSCAN PRODUCT OVERVIEW

An advanced audit service product
from Atlas Copco Service.

Atlas Copco



HOW IS YOUR EQUIPMENT DOING TODAY?

RIGSCAN HELPS YOU DETECT PROBLEMS IN TIME – AN AUDIT SERVICE FOR MAXIMUM UPTIME

Regular health checks help prevent unplanned downtime. RigScan from Atlas Copco is an advanced audit service product that gives you a real time, non-intrusive look at your equipment's condition and performance from the inside. RigScan brings together Atlas Copco expertise, cutting-edge technology and proprietary data from your equipment. It provides a unique solution to solving downtime and production losses in a sustainable way by identifying potential problems prior to them becoming a problem.

+ MAIN BENEFITS

Maximum productivity and minimal downtime through consistent monitoring of the equipment

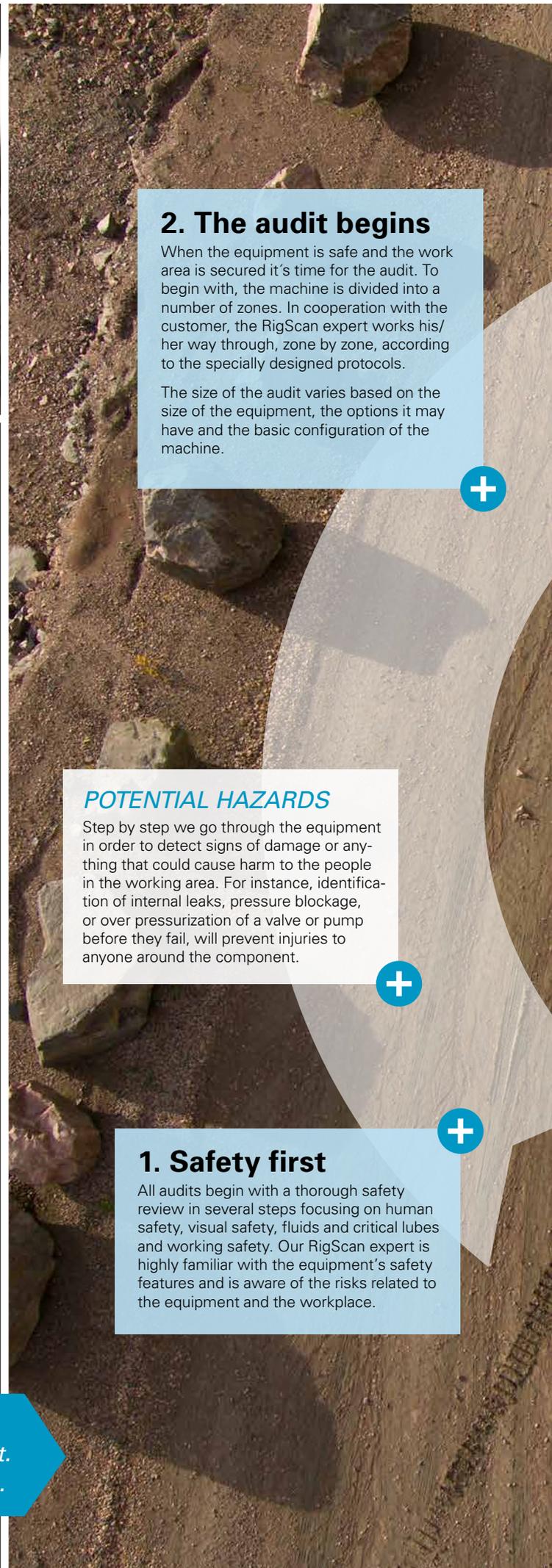
Improved safety, health and the environment through early detection of potential hazards

Reduced maintenance costs through faster troubleshooting

Extended life through advanced diagnosis of problems

Comprehensive performance analysis lowering operational costs

The number of checkpoints in an audit varies based on the size of the equipment. This illustration shows just a few of them.



2. The audit begins

When the equipment is safe and the work area is secured it's time for the audit. To begin with, the machine is divided into a number of zones. In cooperation with the customer, the RigScan expert works his/her way through, zone by zone, according to the specially designed protocols.

The size of the audit varies based on the size of the equipment, the options it may have and the basic configuration of the machine.



POTENTIAL HAZARDS

Step by step we go through the equipment in order to detect signs of damage or anything that could cause harm to the people in the working area. For instance, identification of internal leaks, pressure blockage, or over pressurization of a valve or pump before they fail, will prevent injuries to anyone around the component.



1. Safety first

All audits begin with a thorough safety review in several steps focusing on human safety, visual safety, fluids and critical lubes and working safety. Our RigScan expert is highly familiar with the equipment's safety features and is aware of the risks related to the equipment and the workplace.



KEY COMPONENTS

Different parts of the drill emit different temperature ranges and specific heat signatures, and with a thermal imaging camera, we are able to detect anomalies such as signs of seal leaks, pump leaks, internal leaks and early signs of bearing failures or movements.



FLUIDS

To check the condition of the fluids, a particle counter is used. It can be hooked to multiple test points and ran while the equipment is operating. It's like a blood test, detecting dirt in the "blood" that runs through the pumps, valves, compressor and engine.



COOLERS

To get a picture of how well the coolers are working, we use the thermal imaging camera. The images show how effective the hydraulic oil cooler and the compressor oil cooler are shuttling the hot oil through the cores. If they don't, the system will not cool down like it supposed to.



HYDRAULIC PUMPS

To ensure that the pumps are operating at optimum levels, a digital pressure gauge is used. If the pressure is too high it can reduce the life of the pump significantly, depending on how far the pump is pushed past the recommended level.



3. Health report

RigScan's standardized global audit protocols provide baseline and benchmark data, based on hard field intelligence. Everything follows the specially designed and standardized global audit available for a number of Atlas Copco machines.

The inspection protocols are reviewed together with the customer. When the health report identifies a problem or highlights a potential one, we always specify actions needed.

For example, our RigScan expert can advise you whether a part needs to be replaced right away or if it can wait. If there are steps labeled as critical safety or critical performance the advice will be that the failures must be remedied prior to using the equipment again.

A NEW STANDARD IN EQUIPMENT AUDITS

Monitoring the condition of a piece of equipment on the spot is now easier and quicker thanks to new technology. By combining our unrivaled expertise with contemporary measuring technology, Atlas Copco has set a new standard in equipment audits.



TABLET

Since the audit process is completely digital on an Android tablet with a camera, many functions are incorporated into a single tool. Additional devices are not needed to capture and store images, videos, parts catalogs or equipment manuals.



THERMAL IMAGING CAMERA

The thermal imaging camera can identify failures before they occur. It can identify fluid blockage, internal leaks, improper temperature displacement across cooler cores and many other things, to allow for ordering parts and setting up a service call with almost no loss to production.



PARTICLE COUNTER

Clean fluids are the key to a healthy system. Without clean fluids, valves and pumps will start to fail prematurely because of internal blockage or failure caused by debris in the oil. The particle counter can quickly identify the cleanliness of a fluid based on the specifications set by Atlas Copco.

AVAILABLE FOR

Surface:			Underground:				
DM25	T4BH	PowerROC T45	MT2000	ST1030LP	Boltec M C	Boomer M2 D	
DM30	ECM780	PowerROC T50	MT2010	ST14	Boltec LC	Boomer S1 D	
DM45	ECM590	ROC D3	MT42	ST1510	Boltec 235	Boomer T1 D	
DM50	ECM720	ROC D3 RRC	MT420	ST1520	Boomer 104	Simba L6 C	
DML	FlexiROC D50	ROC D5 RRC	MT431B	ST1530	Boomer 281	Simba M3 C	
PV235	FlexiROC D55	ROC D7	MT436B	ST18	Boomer 282	Simba M6 C	
PV271	FlexiROC D60	ROC D7 RRC	MT436LP	ST2D	Boomer 322	Simba M7 C	
PV275	FlexiROC D65	ROC D9	MT5000	ST2G	Boomer E2 C	Simba 1354	
PV316	FlexiROC T30 R	ROC D9 RRC	MT5010	ST3.5	Boomer L1 C	Diamec U6	
PV351	FlexiROC T35 R	ROC F9	MT5020	ST600LP	Boomer L1 D	Diamec U8	
DMM3	FlexiROC T35 R	ROC L6	MT6020	ST7	Boomer L2 C	Diamec U4	
DMM2	FlexiROC T40	ROC L8	ST1000	ST7.5	Boomer L2 D	Robbins 73 RH C	
T3W	FlexiROC T40 R	SmartROC D65	ST1010	ST710	Boomer M1 C		
RD20	FlexiROC T45	SmartROC T40	ST1020	ST8B	Boomer M1 D		
	PowerROC T35 E		ST1030	ST8C	Boomer M2 C		

Please contact your local Atlas Copco Customer Center for more information.

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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