

Customer Details		
<b>VEDANTA LIMITED</b>	<i>Contact:</i>	Santosh Dash
PLOT SURVEY NO.44/4 & 45/4, AMONA VILLAGE,BICHOLIM TALUKA	<i>Report date:</i>	19-09-2017

Atlas Copco's **Compressor Technique Service Division** provides a complete range of aftermarket services with the aim to maximize customers' productivity to increase uptime and to reduce the cost of ownership. The division focuses on spare parts supply, professional service, and optimization and connectivity products. With 9 regional Sales & Service offices and around 70 dealerships strategically located throughout the country, Atlas Copco is just one call away to cater your service needs. Nationwide, Atlas Copco has a team of over 200 highly trained direct service engineers with vast experience of working on all models of compressed air equipment

## Service Products



**Service Plan** : Service Plan covers all regular maintenance by certified and trained Atlas Copco service engineers and / or supply of genuine parts and lubricants as per the original manufacturer recommendations in a pro-active manner as it should be. This is the best way to lower the risk of unexpected problems allowing you to optimize your production process.



**Airscan** : Dedicated Energy consultants carry out complete Airscan activity consisting of flow check, leak check, power check, air quality check, maintenance assessment and provide a detailed report including cost analysis, graphs and a list of recommendations for system performance improvement.



**Energy Saver / Optimizer / Central controller** : Our range of ES Central Controllers will enable you to link all compressors and dryers, to lower your overall pressure band, to eliminate the need for higher working pressure and to optimize the compressor mix at all times and in turn save energy. 1 bar working pressure reduction results in 7% energy saving and further 3% through leak reduction.



**Energy Recovery** : With ER, energy is recovered from wasted heat from the compressor and reused in production cycle. Energy 50% to 94% of motor KW can be recovered & used to heat industrial application water.

**SMARTLink** : SMARTLINK gathers, compares and analyses data through GPRS connectivity. This allows you to carefully plan and prepare for service interventions. When needed, it sends out warnings in time. An additional, energy monitoring option can be obtained. As a result, service efficiency increases, precious time is gained and money is saved.



**AIRNet** : AIRNet is an easy & fast to install, corrosion-free, leak proof piping system which reduces cost of ownership for the compressed air piping network. AIRnet pipes are standard pre-painted. AIRnet is adaptable to any existing pipe work. Future extensions can simply be plugged in.

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Equipment			
<i>Equipment:</i>	G132-8.5W WITH ABB M	<i>Running Hours:</i>	41 hours
<i>Serial Number:</i>	PNA631186	<i>Load Hours:</i>	32 hours
<i>Visit date:</i>	19-09-2017	<i>Order Number:</i>	547609
<i>Contract Number:</i>		<i>Accumulated Volume:</i>	1000 m <sup>3</sup>
	<i>PO number:</i>	70A/COMM	

## Work Comments

Visit type: Commissioning ( Compressor 3 )

1. Checked incoming supply cables size, found ok.
2. Checked earthing cable size found ok.
3. Removed all silica bags.
4. Checked water and air piping, found ok.
5. Checked and Adjusted Over load Relay setting.
6. Checked oil level, found ok.
7. Removed all transportation supports.
8. Started the compressor and checked motor direction, found ok.
9. Noted all part nos and serial nos.

Compressor type: G 132 W  
Serial no: PNA 631186  
Max working pressure: 8.5 bar

Controller:  
Make: Atlas Copco  
Type: Elektronikon MK 5 Graphic  
Part no: P 1900520013  
Serial no: SRN 1649A00027

Expansion Module:  
Part no: P 1900520033  
Serial no: SRN 1642A01326

Control Panel  
Type: G132W/CP240,MKV  
Serial no: ACSPL-16481-9096582615  
Service Diagram no: 9096582653- REV.01

Compressor Motor  
Make: ABB  
Type: M2BAF315SMB4  
Part no: 9096518200  
Serial no: 3G2J16490090070958

Element  
Part no: 1616734582  
Serial no: AIA 8214867

Air receiver  
Part no: 9095354100  
Serial no: V 17010404

After cooler  
Type: Tube and shell type  
Part no: 1621205008  
Serial no: CH-6538

Oil cooler  
Type: Tube and shell type  
Part no: 1621205008  
Serial no: CH-6532

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## Work Comments

Oil cooler

Type: Tube and shell type

Part no: 1621205008

Serial no: CH-6530

10. Started the compressor and took 4 hours trial, Found all working parameters are within limit.

11. Checked leakages, not found any.

12. Checked motor current, found ok.

13. Explain the operation of controller to the customer.

14. Explain maintenance schedule to the customer. Recommended to the customer to follow maintenance schedule to run the compressor in healthy condition.

15. Recommended to the customer to maintain water quality as per RS index to run the compressor in healthy condition.

16. Done SPM test, found all SPM readings are within limit.

17. Set load unload pressure

Load pressure : 7 bar

Unload pressure : 7.5 bar

NOTE: In case of any failure happens due to water quality, Atlas Copco will not be responsible.

## Recommended Repair

**Estimated work hour:**

## Time Confirmation

Date	Service Engineer	Activity Type	Hour/km
19-09-2017	Faiyaz Shaikh	10	8.00 H
19-09-2017	Faiyaz Shaikh	30	3.00 H

## Material Confirmation

Part Number	Part Description	Quantity unit
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## Work Done

### Operations

- ☒ Give machine description
- ☒ Record machine serial number
- ☒ Record elements part nr & serial nr
- ☒ Record all machine options
- ☒ Record motors part nr & serial nr
- ☒ Record cubicle part nr & serial nr
- ☒ Check machine condition after transport
- ☒ Remove transport locking bolts
- ☒ Check all electrical wiring
- ☒ Check torque main motor cables (cubicle)
- ☒ Check main motor overload setting
- ☒ Check fan motor(s) overload setting
- ☒ Check connection of transfo
- ☒ Check machine environment
- ☒ Check condensate drains
- ☒ Check filters behind compressors
- ☒ Record all required compressor data
- ☒ Record all required motor data
- ☒ Switch on voltage/push reset
- ☒ Check if LED's & displays light up
- ☒ Check main motor rotation sense
- ☒ Check for oil/air leaks
- ☒ Check the drive shaft seal
- ☒ Fill element (1 lit) with oil (unloader)
- ☒ Record all data and settings
- ☒ Check SPM readings
- ☒ Advised customer to dispose Hazardous Waste ( used oil oil soaked Cotton waste used filters e - waste etc.) thru Pollution
- ☒ Control Board authorised agency
- ☒ Reset the Elctronikon after Preventive Maintenance
- ☒ Make Sure the Service Plan is properly set in Electronikon

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## Work Done

### Operations

- ☒ Check Software Version of Connectivity Device  
Is Storage Procedure Explained in detail to the Customer

## Measurement Points

Counter	Current Value	Unit	Date
Running hours	41	H	19-09-2017
Loaded hours	32	H	19-09-2017
Motor start	68	#	19-09-2017
Module time	247	h	19-09-2017
Load relay	737	#	19-09-2017
Compressor outlet temperature	35	°C	19-09-2017
Working pressure	7.4	Bar	19-09-2017
Ambient temperature	30	°C	19-09-2017
DP-airfilter	-0.011	Bar	19-09-2017
Outlet temperature element 1	80	°C	19-09-2017
Oil injection pressure 1	6.5	Bar	19-09-2017
DP-oilseparator 1	0.16	Bar	19-09-2017
Motor Current U1	129	A	19-09-2017
Motor Current V1	128.5	A	19-09-2017
Motor Current W1	125	A	19-09-2017
Coolwater in	29	°C	19-09-2017
Coolwater out	31	°C	19-09-2017

Customer Confirmation	Service Engineer Confirmation
 <p>Signed by Santosh Dash at 19-09-2017 15:28:57</p>	 <p>Signed by Faiyaz Shaikh at 19-09-2017 15:28:57</p>