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| <b>DESCRIPTION:</b> | Mechanical - Howden Turbo KA2SV-GK190 Blower | <b>FREQUENCY:</b>        |  |
| <b>LOCATION:</b>    |  | <b>STANDARD JOB No.:</b> |  |

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|  | <b>Reference Material</b>   |
|  | Operation and Maintenance Manual – KA2SV-GK190  |
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|  | <b>Grease and Oils Required</b>   |
|  | Blower Oil - Shell Corena S4 R 46 or equivalent.  |
|  | Motor Grease - Shell Gadus S2 V100 3 or equivalent.   |
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|  | <b>Procedural Steps</b>   |
|  | <b>Before isolating any equipment where possible observe in running condition. Check for correct operation.</b> |
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|  | <b>Minor Service</b>  |
|  | Check oil level. Top up if required.  |
|  | Confirm the correct alignment of the compressor/motor.  |
|  | Inspect coupling for damage.  |
|  | Check Blower fasteners.   |
|  | Replace Inlet Filters   |
|  | Grease Motor Bearings.  |
|  | Clean outer housing of motor.   |
|  | Clean fan.  |
|  |   |
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|  | <b>Intermediate Service</b>   |
|  | Replace Blower oil.   |
|  | Confirm the correct alignment of the compressor/motor.  |
|  | Inspect coupling for damage.  |
|  | Check Blower fasteners.   |
|  | Replace Inlet Filters   |
|  | Grease Motor Bearings.  |
|  | Clean outer housing of motor.   |
|  | Clean fan.  |
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|  | <b>Overhaul</b>  |
|  | Vibration level in test point (RMS-value) measured before disassembling of Blower  |
|  | <b>Dismounting of air inlet duct.</b> <ul style="list-style-type: none"> <li>- Dismounting of silencer</li> <li>- Dismounting of air-inlet filter.</li> <li>- Dismounting of silencer.</li> <li>- Check of silencer.</li> </ul>  |
|  | <b>Dismounting of outer diffuser drive system.</b>   |
|  | <b>Dismounting of inlet housing, spiral casing, contour ring, impeller/rotor and diffuser plate.</b> <ul style="list-style-type: none"> <li>- Check and cleaning of all air-exposed surfaces, especially of impeller/rotor.</li> <li>- Disassembling of inner diffuser drive system.</li> <li>- Check, lubrication, and cleaning of all parts in the diffuser drive system.</li> <li>- Assembling and measuring of diffuser drive system. Check of throat area.</li> </ul> |
|  | <b>Disassembling of gear.</b> <ul style="list-style-type: none"> <li>- Visual check of gearwheel and sealings.</li> <li>- Replacement of sealings.</li> <li>- Replacement of ball bearings and O-rings.</li> <li>- Replacement of Inlet Shaft Bearing.</li> <li>- Cleaning of all parts.</li> <li>- Assembling of gear.</li> <li>- Check and measuring of axial play in gear.</li> </ul>   |
|  | <b>Assembling of Blower.</b> <ul style="list-style-type: none"> <li>- Visual check of all parts, including check of clearance of axial bearing in rotor.</li> <li>- Check of clearance between impeller and covering.</li> <li>- Replacement of O-rings.</li> </ul>  |
|  | <b>Mounting, check, and adjustment of outer diffuser drive system.</b> <p>Check of mechanical limit switch to stop at scale value "0". Check of limit switch.</p>  |
|  | <b>Mounting of silencer.</b>   |
|  | <b>Replace air-inlet filters.</b>  |
|  | <b>Mounting of air-inlet duct.</b>   |
|  | <b>Replace oil filter.</b>   |
|  | <b>Check of coupling (alignment).</b>  |
|  | <b>Check of drive motor (cleaning of fan and lubrication).</b>   |
|  | <b>Check of blow-off valve and non-return valve (functional test).</b>   |
|  | <b>Check of lube oil pump.</b>   |
|  | <b>Replace bearing and seals in lube oil pump.</b>   |