

## WRV COMPRESSOR PACKAGE - MAINTENANCE SCHEDULE

| Action required |  | Daily | Monthly | 3 monthly | 6 monthly or<br>yearly 2500 hr | 2 yearly or<br>5000 hr | 3 yearly or<br>10000 hr | 4 yearly or<br>15000 hr | 5 yearly or<br>20000 hr | 10 yearly or<br>25000 hr<br>50000 hr | Remarks                         |
|-----------------|--|-------|---------|-----------|--------------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------------------|---------------------------------|
|                 |  |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| <b>1</b>        | <b>General</b>                                     |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 1.1             | Log sheet  | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil level in separator                           | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - suction pressure                                 | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - discharge pressure                               | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil manifold/discharge differential pressure     | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - secondary separator elements diff. pressure      | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - differential pressure on oil filters             | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - discharge gas temperature                        | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil injection temperature                        | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - capacity slide position                          | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - main drive motor and pump motors amperages       | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - motor bearing temperature DE/NDE                 | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil cooler coolant inlet temperature             | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil cooler coolant outlet temperature            | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - running hours                                    | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - oil return from secondary elements to compressor | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - inspection of refrigerant or oil leaks           | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
|                 | - unusual noises and vibrations                    | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| <b>2</b>        | <b>Filter elements</b>                             |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 2.1             | Change elements oil filters                        |       |         | X         |                                |                        |                         |                         |                         |                                      | Dependent on diff. press. alarm |
| 2.2             | Clean element compressor suction strainer          |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 2.3             | Clean oil pump suction strainer                    |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 2.4             | Change secondary elements                          |       |         |           |                                |                        | X                       |                         |                         |                                      |                                 |
| <b>3</b>        | <b>Oil</b>   |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 3.1             | Take sample for analysis                           |       | X       |           |                                |                        |                         |                         |                         |                                      |                                 |
| 3.2             | Oil change   |       |         |           | X                              |                        |                         |                         |                         |                                      | Dependent on oil analysis       |
| <b>4</b>        | <b>Electric Motor</b>                              |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 4.1             | Main drive motor - grease bearings                 |       |         |           |                                |                        |                         |                         |                         |                                      | See name plate motor            |
| 4.2             | Main drive motor - clean/repack bearing            |       |         |           |                                |                        |                         |                         |                         |                                      | See motor manual                |
| 4.3             | Oil pump motors - grease bearings                  |       |         |           |                                |                        |                         |                         |                         |                                      | See name plate motor            |
| 4.4             | Oil pump motors - clean/repack bearings            |       |         |           |                                |                        |                         |                         |                         |                                      | See motor manual                |
| <b>5</b>        | <b>Coupling</b>                                    |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 5.1             | Check all flexible couplings for wear              |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 5.2             | Check alignment                                    |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| <b>6</b>        | <b>Compressor</b>                                  |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 6.1             | Check capacity control system                      | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 6.2             | Inspection   |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 6.3             | Shaft seal replacement                             |       |         |           |                                | X                      |                         |                         |                         |                                      |                                 |
| 6.4             | Renewal of compressor thrust bearings              |       |         |           |                                |                        |                         | X                       |                         |                                      | Regardless of condition         |
| 6.5             | Major overhaul                                     |       |         |           |                                |                        |                         |                         | X                       |                                      | Regardless of condition         |
| <b>7</b>        | <b>Oil pump</b>                                    |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 7.1             | Check shaft seal                                   |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 7.2             | Major overhaul                                     |       |         |           |                                |                        |                         |                         | X                       |                                      |                                 |
| <b>8</b>        | <b>Instruments: gauges/control valves/switches</b> |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 8.1             | Check calibration/set point                        |       |         |           | X                              |                        |                         |                         |                         |                                      |                                 |
| 8.2             | Functional test                                    | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| <b>9</b>        | <b>Safety relief valves</b>                        |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 9.1             | Visual inspection and leaktest                     |       |         | X         |                                |                        |                         |                         |                         |                                      |                                 |
| 9.2             | Re-calibrate                                       |       |         |           |                                |                        |                         | X                       |                         |                                      |                                 |
| <b>10</b>       | <b>Safety switches</b>                             |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 10.1            | Visual inspection and functional test              |       |         | X         |                                |                        |                         |                         |                         |                                      |                                 |
| <b>11</b>       | <b>Emergency systems and alarm signals</b>         |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 11.1            | Visual inspection and functional test              |       |         | X         |                                |                        |                         |                         |                         |                                      |                                 |
| <b>12</b>       | <b>Electrical</b>                                  |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 12.1            | Check terminals on all motors                      |       |         | X         |                                |                        |                         |                         |                         |                                      |                                 |
| 12.2            | Check heaters                                      | X     |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| <b>13</b>       | <b>Vibration</b>                                   |       |         |           |                                |                        |                         |                         |                         |                                      |                                 |
| 13.1            | Vibration Analysis                                 |       |         | X         |                                |                        |                         |                         |                         |                                      | Recommended                     |