## Sacramento - Plant - Sacramento

### Preventive Maintenance List

Print Date: 4/9/2007 Plant 327 Printed By: Christian Thomas

| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|

**Bob Hackworth** **Employee Number: 5306**

**Yeast Refrigeration Compressor #1**
S/N: 6734569379 Asset: 21347
Location: Roof Building: A

| | | | | | |
|---|---|---|---|---|---|
| Check/Refill Reservoir | 7 | 9/24/2004 | 10/1/2004 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Replace Processor | 7 | 9/24/2004 | 10/1/2004 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Check/Repair Hydraulic Oil Leaks | 7 | 9/24/2004 | 10/1/2004 | | |

1. Identify and interpret engine concern; determine necessary action. P-1

2. Research applicable vehicle and service information, such as internal engine operation, vehicle service history, service precautions, and technical service bulletins. P-1

3. Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels, and calibration decals). P-1

4. Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action. P-1

5. Diagnose engine noises and vibrations; determine necessary action. P-2

Notes:

| Parts Description: | Parts Number: | Quantity Needed: | Available: | Location: |
|---|---|---|---|---|
| ☐ ATQR 15, MIDGET TIME DELAY TRANSFORMER FUSE, 15 AMP. 600V., CLASS CC | 65757 | 2 ea | 17 | Parts Stock |
| ☐ Tank Liner | LIN-A | 1 ea | 2 | J6W |

| | | | | | |
|---|---|---|---|---|---|
| Test/Adjust Double-Elimintor | 21 | 9/24/2004 | 10/15/2004 | | |

Notes:

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| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|
| Clean/Replace Filter(s) | 30 | 9/24/2004 | 10/24/2004 | | |
| 1234567 | | | | | |
| Notes: | | | | | |
| Lubricate and Clean Pump(s) | 30 | 9/24/2004 | 10/24/2004 | | |
| testing 123456 | | | | | |
| Notes: | | | | | |
| Check and Oil Chains | 45 | 9/24/2004 | 11/8/2004 | | |
| Notes: | | | | | |
| Check and Oil Chains | 7 | 3/30/2005 | 4/6/2005 | | |
| Check chain for wear. | | | | | |
| Notes: | | | | | |

| Parts Description: | Parts Number: | Quantity Needed: | Available: | Location: |
|---|---|---|---|---|
| ☐ Bearing | 7201 | 6 ea | 16 | H8H |

| | | | | | |
|---|---|---|---|---|---|
| Adjust Rounder Bars as Needed | 300 | 9/24/2004 | 7/21/2005 | | |
| Notes: | | | | | |
| Calibrate Gauges | 300 | 9/24/2004 | 7/21/2005 | | |

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|---|---|---|---|---|---|
| Notes: | | | | | |
| Check For Refrigerant Leaks | 30 | 11/30/2005 | 12/30/2005 | | |
| Safety first, when working on any electrical equipment. All power must be turned off prior to any work being performed.<br>Reset night light timers.<br>Emergency generator should be tested weekly. Perform P.M. as necessary, i.e., check oil and water levels, batteries, etc.<br>Exit lights – replace glass and bulbs as needed.<br>Light alarms – test weekly and perform P.M. as necessary. Change batteries, check bulbs, etc.<br>Fuses – screw, plug, cartridge type: replace as needed.<br>Replace receptacles and switches (110 V only), doorbells, switch, outlet covers and plates as required. | | | | | |
| Notes: | | | | | |
| Check/repair Back Tension Slide | 3 | 1/24/2006 | 1/27/2006 | | |
| Notes: | | | | | |
| Check Drive Chain Alignment | 7 | 1/24/2006 | 1/31/2006 | | |
| Notes: | | | | | |
| Check/Secure Chain Gaurds | 7 | 1/24/2006 | 1/31/2006 | | |

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| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|
| Chain and Sprocket Inspection<br>Like other mechanical operating devices, roller chains require maintenance attention to obtain a long satisfactory operation life. Periodic inspections done to identify problems or potential problems at their earliest stages will pay great dividends in extending chain drive component lives, and preventing costly unexpected shutdowns.<br>Chain Inspection<br>Chain cleanliness and proper lubrication are vital to your chains long life. Foreign material left on the chain can have an abrasive effect when mixed with the lubrication and cause excessive wear.<br>Check for evidence of wear. If the inside surfaces of roller chain link sidebars appear to be worn, then the drive is probably misaligned, and the alignment should be checked. This type of problem will also result in wear on the side of the sprocket teeth.<br>Inspect chain for flexibility. Stiff chain joints can be a result of dirt or grit in the rollers.<br>Inspect the amount of chain stretch or elongation. A single pitch roller chain should be replaced if the amount of stretch is equal to or greater than 3 percent of its original length.<br>Check for any signs of physical damage to the chain, such as broken or cracked parts, loose pins and bushings, or indications of corrosion.<br>Sprocket Inspection<br>As previously discussed, the side of the sprocket teeth should be inspected for signs of wear, indicating a possible alignment problem.<br>Check the teeth for signs of wear, indicated by a “hooked” shaped. This is normal wear, which may have been accelerated by a loose fitting chain. In some cases it is possible to turn the sprocket around, and extend its life.<br>Inspect for signs of physical damage to the sprocket, such as broken or chipped teeth, or excessive corrosion.<br>Check the sprocket runout on the shaft, and inspect the keys and keyways for wear or damage. | | | | | |
| Notes: | | | | | |
| Check Sprockets/Replace | 7 | 1/24/2006 | 1/31/2006 | | |
| Notes: | | | | | |
| Check Air Hoses/Fittings For Leaks | 7 | 3/10/2006 | 3/17/2006 | | |
| Notes: | | | | | |
| Check and Lubricate Bearings | 7 | 5/15/2006 | 5/22/2006 | | |

| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|

Safety first, when working on any electrical equipment. All power must be turned off prior to any work being performed.
Reset night light timers.
Emergency generator should be tested weekly. Perform P.M. as necessary, i.e., check oil and water levels, batteries, etc.
Exit lights - replace glass and bulbs as needed.
Light alarms - test weekly and perform P.M. as necessary. Change batteries, check bulbs, etc.
Fuses - screw, plug, cartridge type: replace as needed.
Replace receptacles and switches (110 V only), doorbells, switch, outlet covers and plates as required.
Replace ballast on light fixtures on 120 V or below.
Replace lamps as needed -roof lights, fluorescent, incandescent mercury vapor, halogen, standard and mogul base (interior exterior).
Replace all sockets and clips on fixtures as needed.
Replace light lenses and covers. Clean when necessary.
Re-secure all communication devises; i.e., house phones, P.A. speakers, intercom, etc.
Reset and secure secondary and 120 V. A.C. clocks other than master clocks.
Inspect the operation of school flashers (exterior of building) on a daily basis.
Secure all electrical panel boxes and control boxes (safety issue).
Secure all electrical covers on gang boxes, circuit breaker covers, control covers, fire eye control boxes, etc.

Notes:

| Parts Description: | Parts Number: | Quantity Needed: | Available: | Location: |
|---|---|---|---|---|
| ☐ Roller Bearing | 6206 | 2 ea | 99 | H8H |

| | | | | | |
|---|---|---|---|---|---|
| Check Blower Oil Level | 30 | 5/15/2006 | 6/14/2006 | | |

1. Identify and interpret engine concern; determine necessary action. P-1

2. Research applicable vehicle and service information, such as internal engine operation, vehicle service history, service precautions, and technical service bulletins. P-1

3. Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels, and calibration decals). P-1

4. Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action. P-1

5. Diagnose engine noises and vibrations; determine necessary action. P-2

6. Diagnose the cause of excessive oil consumption, unusual engine exhaust color, odor, and sound; determine necessary action. P-2

7. Perform engine vacuum tests; determine necessary action. P-1

8. Perform cylinder power balance tests; determine necessary action. P-1

9. Perform cylinder compression tests; determine necessary action. P-1.

Notes:

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| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|
| Check and Oil Chains | 30 | 5/15/2006 | 6/14/2006 | | |
| Notes: | | | | | |
| Use Proper Tools For All Tasks: Safety Glasses, Hard Hats, Steel Toe Boots,hearing Protection Task F.02 . Employ Proper Safety Procedures For Lift Equipment,scaffolds, And Ladders: Safety Belts, Guard Rails, Safe Operation Of Lift Equipment. | 1,080 | 9/24/2004 | 9/9/2007 | | |
| Notes: | | | | | |

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| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|

**Clarice Thomas** **Employee Number: 5320**

**Yeast Refrigeration Compressor #1**
S/N: 6734569379 Asset: 21347
Location: Roof Building: A

| | | | | | |
|---|---|---|---|---|---|
| Check Air Cylinder(s) | 7 | 6/1/2003 | 6/8/2003 | | |

Notes:

| Parts Description: | Parts Number: | Quantity Needed: | Available: | Location: |
|---|---|---|---|---|
| ☐ 1" Ball Valve | 8BV-91 | 1 pcs | 6 | D5W |

| | | | | | |
|---|---|---|---|---|---|
| Check Air Solonoid | 7 | 3/30/2005 | 4/6/2005 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Fill Air Line Oiler(s) | 7 | 5/3/2005 | 5/10/2005 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Drain Water Trap(s) | 7 | 5/3/2005 | 5/10/2005 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Check Cylinder Clevis and Pin(s) | 7 | 1/24/2006 | 1/31/2006 | | |

Notes:

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| Task: | Interval: | Start | Due | Hours | Parts Used/Comments |
|---|---|---|---|---|---|
| **Ken Wright** | | | **Employee Number: 5314** | | |
| **Yeast Refrigeration Compressor #1** | | | | | |
| S/N: 6734569379 | | Asset: 21347 | | | |
| Location: Roof | | Building: A | | | |
| Check/Tighten Set Screws | 7 | 1/6/2003 | 1/13/2003 | | |

Notes:

| | | | | | |
|---|---|---|---|---|---|
| Remove Excess Oil and/or Grease | 7 | 6/10/2003 | 6/17/2003 | | |

Step 1 – Check the Refrigerant for Acid
· If the compressor has burned out, change the compressor, refrigerant, and oil. Also, change the filter driers (adding a suction-line filter is recommended if one is not already installed). Go to step 2.
· If the compressor has not burned out, use a Mainstream QwikCheck® to determine if the refrigerant is acidic.
q If the refrigerant tests highly acidic (QwikCheck indicator turns red), change the refrigerant and oil. Also, change the filter-driers (adding a suction-line filter drier is recommended if one is not already installed). Go to step 2.
q If the refrigerant tests mildly acidic (QwikCheck indicator turns orange), you need not change the refrigerant or the oil, but you should change
the filter-driers. Go to step 2.
q If the refrigerant does not test acidic (QwikCheck indicator stays yellow) skip all subsequent steps, no acid treatment is necessary.
Step 2 – Determine the Size of the Filter-Drier in the System
· Determine the recommended filter-drier for the system. If the equipment manufacturer does not make any specific recommendations, a QwikChange™ Filter-Drier is recommended.
· Determine either the combined “Water Capacity” (in drops of water) of the filter-drier(s) being installed, the total desiccant volume of the filterdrier(
s) being installed (this is typically the first two digits on the filter number, for example a Mainstream QwikChange QF0530 has 5 cubic inches of desiccant), or the tonnage of the system the filter-drier(s) are installed in.
Step 3 – Determine the Amount of Acid Flush to use
· Use the half-ounce bottle of Acid Flush to treat up to a 3 ton system (filter capacity of up to 100 drops of water, or up to a 10 cubic inch drier)
Step 4 – Add Acid Flush to the Compressor Oil
· Add Acid Flush through the low-pressure service valve using a QwikInjector™. Follow the QwikInjector instruction sheet.

Notes: