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RAIL

SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 5-25-2016 **BULLETIN NO:** 16-002

TITLE: TAMPER WORKHEAD VIBRATOR MOTOR ROTATION

RATING: **DIRECTIVE** (Action Is Required) **ALERT** (Potential Problem)
 INFORMATION (Action Is Optional) **PRODUCT IMPROVEMENT** (Enhance Product)

PRODUCT SERIES / MODEL: All Mark IV Tampers, Mark VI Tampers and Drone Tampers

SERIAL NO: All Mark IV Tampers, Mark VI Tamper and Drone Tampers

SUMMARY: If the hydraulic piping to a workhead vibrator motor has been disconnected for any reason, the hydraulic lines may have been re-connected incorrectly to the motor ports causing the vibrator motor to rotate counter-clockwise instead of clockwise. If a vibrator motor is rotating counter-clockwise, the upper portion of the workhead vibrator will not be properly lubricated leading to premature vibrator failure.

OPERATIONAL IMPACT: Harsco Rail recommends that all workhead vibrator motors be checked to ensure that they rotate clockwise to provide proper lubrication to the upper portion of the vibrator during operation.

ACTION: Refer to the instructions in this Service Bulletin to check the workhead vibrator motors for proper clockwise rotation and to change the rotation direction if it rotating counter-clockwise.

CONTACT: If you have any questions or if we can be of any service, please contact:
Harsco Rail Service Department
Columbia, SC Facility
(803) 822-7546

SAFETY INFORMATION

- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE MACHINE FROM ALL ENERGY SOURCES. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

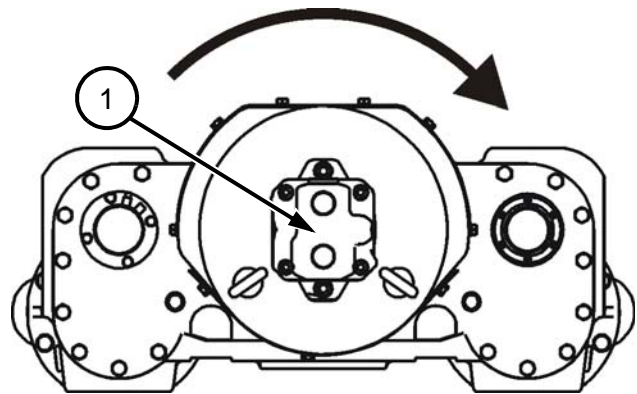
CHECKING WORKHEAD VIBRATOR MOTOR ROTATION - See Figure 1

1. Enable the workheads on the machine. Start the workhead vibrator motors.
2. Check the workhead vibrators for clockwise rotation when viewed from the top of the workhead vibrator.
 - a. If the vibrators are rotating clockwise, the rotation is correct and no further action is required.
 - b. If one or more vibrators are rotating counter-clockwise, the rotation is incorrect and the rotation direction must be changed. See Changing Workhead Vibrator Motor Rotation.

CHANGING WORKHEAD VIBRATOR MOTOR ROTATION - See Figure 1

1. Stop the workhead vibrator motors. Stop the engine. Depressurize the hydraulic system.
2. Disconnect the hydraulic lines to the vibrator motor (1) that was rotating counter-clockwise. Be sure to catch all hydraulic fluid in a leak proof container.
3. Re-connect the hydraulic line that was originally in Port "A" of the motor (1) to Port "B" of the motor. Re-connect the hydraulic line that was originally in Port "B" of the motor (1) to Port "A" of the motor. Tighten all hydraulic lines securely.
4. Repeat Checking Workhead Vibrator Motor Rotation Procedure to verify the workhead vibrator motor rotation is clockwise.

FIGURE 1
WORKHEAD VIBRATOR ROTATION



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