

LUBRICATION and MAINTENANCE SCHEDULE T300/400 CRUSHER



Table A-1. Lube and Maintenance Schedule, T300/400 Crusher

| Maintenance | Daily Start-Up | Daily Shutdown | Weekly | Monthly | Annually | As Req'd | Notes: |
|--|----------------|----------------|--------|---------|----------|----------|---------------------|
| Remove dirt and spillage from around the crusher. | X | | | | | | |
| Remove dust and dirt from drive motor. | X | | | | | | |
| Remove any built up material or debris from the crusher frame. | X | | | | | | |
| Remove dust and dirt from exterior of lubrication system. | X | | | | | | |
| Remove built-up dirt from relief cylinders. | X | | | | | | |
| Remove dust and dirt from hydraulic system. | X | | | | | | |
| Remove dirt from lubrication system oil cooler (fan type air-oil cooler only). | X | | | | | | |
| Clean out all chutes, hoppers and rock boxes. | X | | | | | | |
| Verify that crushing chamber is clear. | X | | | | | | |
| Check that crusher motor stops if crusher panel door is opened. | X | | | | | | |
| Inspect frame shields and frame liner for wear. | X | | | | | | |
| Inspect for signs of hydraulic leaks at hoses. | X | X | | | | | |
| Check oil lubrication system for leaks. | X | X | | | | X | Check every 4 hours |

WARNING: Lockout/Tagout power before performing any lubrication, maintenance, adjustments or repairs!

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| Maintenance | Daily Start-Up | Daily Shutdown | Weekly | Monthly | Annually | As Req'd | Notes: |
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| Depress horn test button, alarm horn must sound. | X | | | | | | |
| Check that oil flow is visible at the oil tank return pipe. | X | | | | | | Steady oil flow (1/3 to 1/2 pipe) |
| Inspect the power rotator for obvious damage or wear. | X | | | | | | |
| Verify that alarm horn sounds when oil pump is started. | X | | | | | | |
| Verify that alarm horn stops when oil circulates through crusher. | X | | | | | *X | *Every 4 hours |
| Operate oil pump for at least 15 minutes before starting the crusher | X | | | | | | |
| Check all gauges for correct reading | X | | | | | | Stop crusher immediately if any reading is outside the operational range. |
| Check Diesel Engine Fluid Levels (If equipped). | X | | | | | | Refer to Mfg Engine Manual. |
| Check hydraulic system for leaks. | X | | | | | | |
| Check hydraulic system oil level, add oil if necessary. | X | | | | | | |
| Check the hydraulic system pressure. Pressure should read: More than 2200 PSI (152 bar). | X | | | | | | |
| Check lubrication system oil pressure and flow. Make certain that all readings are normal. | X | | | | | | |

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| Test oil pump interlock. Crusher must not start when oil pump is off. | X | | | | | | |
| Check the return line oil temperature: -Oil must be at least 70°F (21°C) before crushing begins. -Oil at return line must be less than 135°F (57°C) at all times. | X | | | | | | |
| Listen for any unusual noises or vibrations after crusher is started. | X | | | | | | |
| Check that feed is properly graded and free of fines or uncrushables. | X | | | | | | |
| Inspect water/oil cooler (if equipped) for leaks | X | | | | | | |
| Check that feed is distributed 360° around crushing chamber. | X | | | | | | |
| Verify that head turns slowly counterclockwise after feed is introduced. | X | | | | | | |
| Check the discharge conveyor for proper operation. Be sure there is no spillage or back-up of material. | X | | | | | | |
| Verify that NO upper frame movement is occurring. | X | | | | | | |
| Verify that power draw is within normal limits. | X | | | | | | |
| Check that oil return screen/strainer is free of metal particles. | X | | | | | | |

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| Check that lubrication system filter indicator is in OK zone. (Check at normal operating temperature with hydraulic pump on.) | X | | | | | X | Every 4 Hours |
| Check that BOTH hydraulic filter indicators are GREEN. (Check at normal operating temperature with hydraulic pump on.) | X | | | | | X | Every 4 Hours |
| Inspect all chutes and hoppers for wear or worn through spots. | | X | | | | | |
| Check Shaft Nut for looseness or wear. | | | X | | | | |
| Remove dirt from sheaves. | | | X | | | | |
| Inspect all hoses and lines for wear or fatigue. | | | X | | | | |
| Check mantle and concave ring for looseness, cracks or wear. | | | X | | | | |
| Remove dirt from hydraulic system oil cooler. | | | X | | | | |
| Remove any built-up dirt from the power rotator(s). | | | X | | | | |
| Inspect and clean all gauges and sight glasses. | | | X | | | | |
| Check lubrication system oil cooler for leaks or damage. | | | X | | | | |
| Check sheaves for wear or looseness. | | | X | | | | Torque sheave mounting capscrews if necessary. |

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| Check for loose nuts and bolts on support structure and crusher. | | | X | | | | |
| Inspect V-Belts for damage or wear. Check V-Belt tension. | | | X | | | | |
| Measure the Discharge Setting. | | | X | | | | |
| Check gear backlash and record in service log. | | | | X | | | |
| Check main frame for cracks. | | | | X | | | |
| Inspect oil heaters in oil tank. Remove carbon build-up if present. | | | | | | X | Check every 600 hours of operation. |
| Check oil tank cover gasket. Replace if worn or damaged. | | | | | | X | Check every 600 hours of operation. |
| Inspect rotary seal ring for wear. | | | | | | X | Check at every liner change |
| Check oil in power rotator gearbox(es) | | | | X | | | |
| Lubricate the Buttress Threads. | | | | X | | | Lube more frequently if used more than 1 shift. |
| Unlock the support bowl and rotate it back and forth several times. | | | | X | | | Rotate after lubing threads. |
| Clean the hydraulic reservoir filler cap. Replace if clogged. | | | | X | | | |
| Perform lubrication system oil analysis. | | | | X | | | |
| Change the power rotator gearbox oil and grease the gearbox output bearing. | | | | | X | | |

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| Change oil in hydraulic reservoir. | | | | | X | | 2000 hours or annually |
| Replace hydraulic oil filter elements. | | | | | X | | Replace before annual change if indicator is Red. |
| Change the lubrication system oil and replace filter elements. | | | | | | X | Every 600 Hours Minimum |
| Lubricate crusher drive motor. | | | | | | X | Refer to motor mfg's service intervals. |
| Lubricate oil cooler fan motor (if equipped). | | | | | | X | |
| Perform Diesel Engine Maintenance (if equipped). | | | | | | X | Refer to Mfg Engine Manual |

