



TELSMITH[®]

an Astec Industries Co.



TELSMITH WALK-THROUGH OBSERVATION CHECK LIST



AS NEEDED	MONTHLY	WEEKLY	DAILY
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DUMP HOPPER

<ul style="list-style-type: none"> • Check the skirts for proper gap to feeder side plates, pan and crusher receiving box. 			X	
<ul style="list-style-type: none"> • Check between the skirts and feeder for build up of mud or clay. 			X	
<ul style="list-style-type: none"> • Check for loose bolts in the structure. 		X		
<ul style="list-style-type: none"> • Check for cracks in welds. 		X		

FEEDERS

<ul style="list-style-type: none"> • Check the oil level. Change as recommended by the manufacturer. 				X
<ul style="list-style-type: none"> • Check that the grizzly bars are tight and free from plugged rocks. 				X
<ul style="list-style-type: none"> • Verify that the belts are tight. 			X	
<ul style="list-style-type: none"> • Check the guarding for interference with sheaves or material build up. 			X	
<ul style="list-style-type: none"> • Check for wear on the replaceable pan and side liners. 			X	
<ul style="list-style-type: none"> • Check for wear on the grizzly bars. 			X	
<ul style="list-style-type: none"> • Check the discharge chutes for build up of material. 			X	
<ul style="list-style-type: none"> • Check the sheaves and belts for wear. 		X		

JAW CRUSHERS

AS NEEDED

MONTHLY

WEEKLY

DAILY

<ul style="list-style-type: none"> • Check that the dies are tight and are not worn too thin. 				X
<ul style="list-style-type: none"> • Check that the cheek plates are tight and are not worn too thin. 				X
<ul style="list-style-type: none"> • Check the discharge chute to ensure it is clear of debris; steel, slabs, etc. 				X
<ul style="list-style-type: none"> • Inspect all the bolts to see if they are tight. 				X
<ul style="list-style-type: none"> • Inspect the toggle plate stops. 				X
<ul style="list-style-type: none"> • Check the toggle plate for cracks. 				X
<ul style="list-style-type: none"> • Check the toggle springs, make sure they are not broken and are adjusted equally. 				X
Δ • Listen to the crusher running empty. Tighten toggle springs if a thumping sound is heard.				X
<ul style="list-style-type: none"> • Check the flywheels for cracks. 			X	
<ul style="list-style-type: none"> • Check the coast down time at the end of each day, log in the equipment file and watch for downward trends. 			X	
Δ • Check the bearing temperatures periodically with a temperature gun. Log in the equipment file and watch for upward trends.			X	
Δ • Check the oil system, pressure, temperature, flow, and return. Check for any leaking lines or seals. Log the data in the equipment file.			X	
<ul style="list-style-type: none"> • Test the alarm systems. 			X	
<ul style="list-style-type: none"> • Check that the belts are tight and not worn. 			X	
<ul style="list-style-type: none"> • Check for sheave wear. 			X	
Δ • Log amperage draw, empty and full.			X	
<ul style="list-style-type: none"> • Check the closed side setting. Ensure it is within the manufacturers suggested range. 	X			
Δ = while running				

HSI CRUSHERS

AS NEEDED	MONTHLY	WEEKLY	DAILY
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- Check for loose or missing bars and liners.

- Check for wear on bars and liners.

△ • Check and then log coast down time in the equipment file.

△ • Check the rotor bearing temperatures during operation and log in the equipment file.

- Check that the belts are tight and not worn.

- Check for sheave wear.

△ • Log amperage draw, empty and full.

- Check the gap of the primary and secondary aprons. Adjust for wear as needed.

SCREENS

- Check the fines hopper for build-up.

- Check for plugging or blinded screen media.

- Check the screen for proper clearance between it and structure including the chutes.

- Check the guarding for interference with sheaves or material build up.

- Check the condition of the motor bases.

- Check the springs for wear, cracks or breakage.

△ • Check the height of the springs, log in the equipment file and then compare to new.

- Check that belts are tight and not worn.

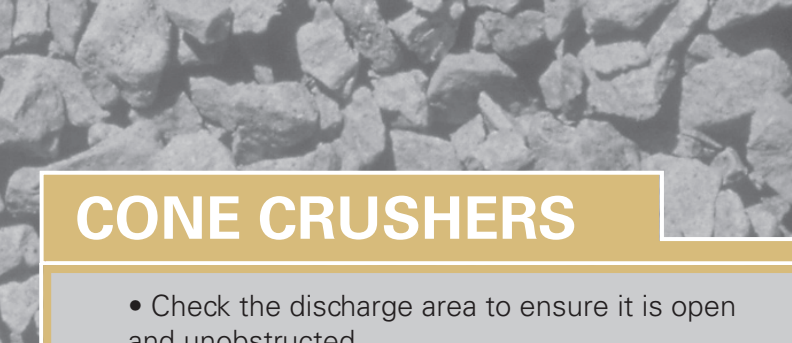
- Check for sheave wear.

△ • Check feed to the screen. Is it centered & flowing onto the built-in feed box or hitting media directly?

- Check the chutes & gates for wear and build up.

- Check the screen trays for wear or breaks.

- Check the media for wear and ensure it is tight.



CONE CRUSHERS

AS NEEDED
MONTHLY
WEEKLY
DAILY

	AS NEEDED	MONTHLY	WEEKLY	DAILY
• Check the discharge area to ensure it is open and unobstructed.				X
• Check that the belts are tight and not worn			X	
• Check for the sheave wear.			X	
• Check the guarding for interference with sheaves or material build up.			X	
Δ • Check the feed to cone. Verify it is centered and blended.			X	
Δ • Check all temperatures, pressures, flows in both hydraulic and lubrication systems and log in the equipment file.			X	
• Test the alarm systems.			X	
• Check the hydraulic system if equipped and verify operating parameters.			X	
• Inspect the hydraulic lines and fittings for leaks.			X	
Δ • Check for movement of the bowl or upper frame bounce while crushing.			X	
• Check the necessary grease points of machine as recommended by the manufacturer. (clean & grease)			X	
• Check the frame arms and discharge openings for build up of material.	X			
• Check the condition of the manganese wear liners. Look for bellies, cracks and verify thickness.	X			
• Check the closed side setting and ensure it is within the manufacturers suggested range.				

Δ = while running

AS NEEDED
MONTHLY
WEEKLY
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CONVEYORS

• Check the belting for wear or tears.				X
• Check the condition of the belt splices.				X
△ • Listen for any gear box or pulley bearing noise.				X
• Ensure the guarding is in place.				X
• Check the condition of walkway if equipped and clean up any spillage.				X
△ • Listen and look for any belt slippage on drive pulleys.				X
• Verify that the load hopper skirting is adjusted properly.				X
• Inspect the trough and return idlers for worn out cans or seized bearings.				X
• Check the tracking of belt. Ensure it's centered and not rubbing.				X
• Check the lagging on the drive pulleys.			X	
△ • Check the feed to each belt. Is it in the center of the belt?			X	
• Check that the drive belts are tight and not worn.			X	
• Check for sheave wear.			X	
• Verify E-stop functions properly and that the pull cord doesn't have too much slack in it.			X	
• Ensure the area under and around the tail pulley is clean and free of material build up.			X	
• Check the fluid levels in the gear boxes and ensure all grease points have been lubricated.			X	
• Check the head pulley belt scraper for wear, if equipped.	X			
△ = while running				



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TUNNEL & FEEDERS

	AS NEEDED	MONTHLY	WEEKLY	DAILY
• Check for bridging of material inside the gate.				X
• Check for wear on cut off gate.			X	
• Check the feeder pan liner condition.			X	
• Check for clearance between feeders and skirts.			X	
• Check skirting at load points on tunnel conveyor.			X	

SWITCH GEAR

	AS NEEDED	MONTHLY	WEEKLY	DAILY
• Ensure all panel doors are closed and clamped tight.				X
• Check for heat issues.			X	
• Ensure that the starter panels are clean and free of dust build up. Vacuum if necessary, do not blow out with compressed air.			X	
• Check the overloads for proper setting.			X	
• Ensure that all wires are tight.	X			

⚠ WARNING!!!

Failure to follow the safety precautions shown below may result in serious personal injury or death!

- Never attempt to work on quarry equipment while it's in operation. Always stop the machinery, lockout power and tag controls.
 1. Before performing any lubrication, maintenance, adjustment or repairs.
 2. Before removing spilled materials.
 3. Before clearing jams or working inside the machinery.
 4. If any unusual noises or sudden changes in operation are noticed.

	AS NEEDED	MONTHLY	WEEKLY	DAILY

LUBRICANT RECOMENDATIONS FOR VIBRATING EQUIPMENT

Lubricant Type	Ambient Temp °F (°C)	Specification	Recommended Standard Lubricant	Recommended Synthetic Lubricant
Oil	Below 40 (Below 4.5)	ISO 100, AGMA 3 EP	Mobilgear 600, XP 100	Mobilgear SHC 150
	40 TO 80 (4.5 TO 27)	ISO 150, AGMA 4 EP	Mobilgear 600, XP 150	Mobilgear SHC 150
	Above 80 (Above 27)	ISO 220, AGMA 5 EP	Mobilgear 600, XP 220	Mobilgear SHC 220
Grease	ALL TEMPERATURES	NLGI #2 with EP Additive	Mobil Delvac Xtreme	Mobilith SHC 220

LUBRICANT RECOMENDATIONS FOR JAW CRUSHERS

Lubricant Type	Ambient Temperature °F (°C)	Specification	Recommended Standard Lubricant	Recommended Synthetic Lubricant
Grease	Below 40 (4) with Central Grease System	NLGI 00, with EP Additives	--	Mobilith SHC 007
	Below 100 (Below 38)	NLGI 2, with EP Additives	Mobil Delvac Xtreme	Mobilith SHC 460
	Above 100 (Above 38)	NLGI 2, with EP Additives	--	Mobilith SHC 460
Lube Oil	Below 40 (Below 4)	ISO 100, AGMA 3 EP	Mobilgear 600, XP 100	Mobilgear SHC 150
	Above 40 (Above 4)	ISO 150, AGMA 4 EP	Mobilgear 600, XP 150	Mobilgear SHC 150
Hydraulic Oil	Below 40 (Below 4)	ISO 32, HVI AW Low Pour Point	Mobil DTE 13M	Mobil SHC 524
	Above 40 (Above 4)	ISO 68, Antiwear	Mobil DTE 26	Mobil SHC 526

LUBRICANT RECOMENDATIONS FOR CONE CRUSHERS

Lubricant Type	Ambient Temperature °F (°C)	Specification	Recommended Standard Lubricant	Recommended Synthetic Lubricant
Lube Oil	Below 40 (Below 4)	ISO 100, AGMA 3 EP	Mobilgear 600 XP 100	Mobilgear SHC 100
	40 to 80 (4 to 27)	ISO 150, AGMA 4 EP	Mobilgear 600 XP 150	Mobilgear SHC 150
	Above 80 (Above 27)	ISO 220, AGMA 5 EP	Mobilgear 600 XP 220	Mobilgear SHC 220
Hydraulic Oil	Below 40 (Below 4)	ISO 32, HVI AW Low Pour Point	Mobil DTE 13M	Mobil SHC 524
	Above 40 (Above 4)	ISO 68, Antiwear	Mobil DTE 26	Mobil SHC 526
Buttress Thread Grease	All Temperatures	NGLI 2, with EP Additives, 3% Moly (min.)	Mobilgrease XHP 322 Mine	--

CONSULT YOUR OWNERS MANUAL FOR CHANGE/REPLENISHMENT INTERVAL

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