

SATS GATEWAY		SATS MAINTENANCE CENTRE LOADER (Air Marrel) PREVENTIVE MAINTENANCE CHECKLIST			
Equipment No. :			JOB No. :		
Hourmeter Reading :			Date :		
Mechanical Checks By :			S/No. :	Sign:	
Electrical Checks By :			S/No. :	Sign:	
Tested By :			S/No. :	Sign:	
S/No.	SYSTEM / SERVICE		A	C	
1	Engine				
1.1	Valve Clearance	Check, adjust as necessary			
1.2	Rocker & Cover	Check for leak & security			
1.3	Timing Cover gasket/seal	Check for leak			
1.4	Engine oil	Drain, flush & replenish to the correct level			
1.5	Engine oil Filter	Replace element			
1.6	Oil Cooler	Clean with dry air and (check for cracks & leakage)			
1.7	Oil sump gasket & Bolt	Check for leak & security			
1.8	Drain Plug	Check for leaks and security			
1.9	Engine Mounting(Front & Rear)	Check for cracks and security			
1.10	Flywheel Housing	Check for wear & security			
2	Cooling System				
2.1	Radiator Cap	Check condition, security and ensure correct pressure cap is installed correctly			
2.2	Radiator Hose	Check for cracks, loose clamps, damage and security of clamps			
2.3	Radiator	Check for external leaks and clean dirt builds up at cooler fins			
		Check level and top up as necessary			
		Drain, flush and fill coolant /water with proper mixture and level			
2.4	Radiator Mounting	Examine for cracks, damage and security			
2.5	Drain Valve	Examine for leaks and security			
2.6	Fan Cowling	Check for cracks and security			
2.7	Fan Belt	Examine for intersecting cracks, frayed or missing pieces			
2.8	Fan Belt pulley	Check for cracks and security			
3	ENGINE AIR SYSTEMS				
3.1	Air Cleaner Element	Replace the elements			
		Check and clean the element			
3.2	Air Cleaner Assy	Check covers for cracks and security			
3.3	Turbo Changer	Check for cracks, security, leaks			
4	ENGINE FUEL SYSTEMS				
4.1	Fuel Tank	Check for leak and security			
4.2	Fuel Tank Cap	Check condition & security (Rubber seal)			
4.3	Tank Drain Plug	Check for security & leaks			
4.4	Hoses & Pipes & Unions	Check for damage, Leak & chaming. Replace the hose 4 yearly			
4.5	Sediment bowl	Check condition & clean			
4.6	Fuel Filter	Replace element			
4.7	Fuel injectors	Check for leaks and operation			
4.8	Fuel Injector Pump	Check for leaks and operation			
4.9	Fuel lift Pump	Check for leaks and operation			
4.10	Throttle Linkage	Check for bend and security			
4.11	Solenoid	Examine for cracks, damage and security			

S/No.	SYSTEM / SERVICE		A	C
5	EXHAUST SYSTEM			
5.1	Silencer & Exhaust pipe	Check for cracks, security, leaks		
5.2	Exhaust Clamp support bracket & Flexible Mounting	Check for cracks, security, leaks		
6	STEERING / WHEEL SYSTEM			
6.1	Wheel / Tyre assembly	Check for uneven wear, cuts & pressure		
6.2	Wheel Hub / Reduction gear	Check for cracks, leak & correct oil level		
6.3	Steering motor / cylinder	Check for security, damage & leaks		
6.4	Steering column	Examine for cracks, damage, security & condition		
6.5	King Pin And Bushes	Check for condition (damage & worn)		
6.6	Turn Table mounting & Bearing	Examine for cracks, damage, security & condition		
6.7	Hoses / Fitting	Check for kink, bent, security, damage & leaks		
6.8	Tie Rod & Ball Joint	Examine for, security & condition (wear & tear)		
6.9	Drive axle & Planetary gear hub.	Check for Condemnation & correct level.		
6.1	Drive axle & Planetary gear hub oil	Check for leak & Replace yearly (Last Change :)		
7	BRAKE SYSTEM			
7.1	Wheel cylinder (Air Marrel)	Check for crack, security, leaks		
7.2	Brake drum & Lining (Air Marrel)	Check for cracks & wear		
7.3	Hoses & Pipes & Connection	Check for kink, bent, security, damage & leaks		
7.4	Wheel Bearing	Check for condition (damage & worn)		
8	REAR SCISSOR			
8.1	Rear Scissors	Check for security, damage, crack & operation		
8.2	Scissors attaching Pin	Check for cracks & wear		
8.3	Lift chains & tension	Check for damage, elongation, tension & lubricate		
8.4	Chain Sheave & Assy	Check for security, damage & operation		
8.5	Scissors rollers	Check for security, damage, wear & operation		
8.6	Weld points cross member	Check for condition (damage & worn)		
8.7	Take up chains	Check for damage, tension & lubricate		
8.8	Chain attaching pivots	Check for cracks & wear		
8.9	Maintenance safety status / choke	Check for security, damage & grease		
8.10	Grease nipples	Check for security, damage & operation		
9	REAR PLATOFRM			
9.1	Castors & Rollers	Check for security, damage, worn or broken		
9.2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
9.3	Pallet guides & stop linkages	Check for damage, tension & lubricate		
9.4	Stop & guides pivots	Check for security, damage & operation		
9.5	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
9.6	Pallet guides cylinders / pin	Check for condition (damage & worn)		
9.7	Limit switches actuation	Check for damage, tension & lubricate		
9.8	Hydraulic motor mounting	Check for cracks & security		
9.9	Leakage	Check for security, damage & greased		
9.10	Link offset of platform	Check for security, damage & operation		

S/No.	SYSTEM / SERVICE		A	C
10	HYDRAULIC SYSTEM			
10.1	Hydraulic tank , Cap Seal	Check for security, damage, leak & worn		
10.2	Hydraulic Oil	Check for Condemnation & correct level		
10.3	Hydraulic Oil	Every 2 yearly flush hydraulic tank & replace with new oil (Last Change :)		
10.4	Hydraulic Strainer	Replace with oil change		
10.5	Hydraulic Filter	Replace with oil change		
10.6	Hydraulic Pump & Motor	Check for security, damage, Leak & noise		
10.7	Hydraulic Pump	Check for operating pressure		
10.8	Hydraulic Hose & Fittings	Check for damage, Leak & chafing. Replace 2 yearly for high pressure hose & 4 yearly for low pressure hose.		
10.9	Hydraulic Lift cylinder (bridge & platform)	Check for security , damage, Leak . Replace all the cylinder 2 yearly (Last Change :		
10.10	Stabilizers & Driver Motors	Check for security, damage, Leak & bent cylinder		
10.11	Bogy Wheel & Hydraulic Cylinder	Check for security, damage, Leak & wear		
10.12	All Control valve	Check for security, damage & Leak		
11	FORWARD SCISSORS			
11	Rear Scissors	Check for security, damage, crack & operation		
11.1	Scissors attaching Pin	Check for cracks & wear		
11.2	Lift chains & tension	Check for damage, tension & lubricate		
11.3	Chain Sheave & Assy	Check for security, damage & operation		
11.4	Scissors rollers	Check for security, damage, wear & operation		
11.5	Weld points cross member	Check for condition (damage & worn)		
11.6	Take up chains	Check for damage, tension & lubricate		
11.7	Chain attaching pivots	Check for stretch & wear		
11.8	Maint, Stands	Check for security, damage & greased		
11.9	Grease nipples	Check for security, damage & operation		
12	FORWARD PLATFORM			
12.1	Castors & Rollers	Check for security, damage, crack & operation		
12.2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
12.3	Pallet guides & stop linkages	Check for damage, tension & lubricate		
12.4	Stop & guides pivots	Check for security, damage & operation		
12.5	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
12.6	Pallet guides cylinders / pin	Check for condition (damage & worn)		
12.7	Limit switches actuation	Check for damage, tension & lubricate		
12.8	Hydraulic motor mounting	Check for cracks & security		
12.9	Leakage	Check for security, damage & greased		
12.10	Link offset of platform	Check for security, damage & operation		

S/No.	SYSTEM / SERVICE		A	C
13	ELECTRICAL SYSTEM			
13.1	Battery	Check for electrolyte level & Replace Battery yearly		
13.2	Battery terminals & Wire	Clean terminal & Examine for cuts, abrasion, proper connection & security		
13.3	Electrical wiring / connection (All junction box)	Examine for cuts, abrasion, proper connection & security		
13.4	Starter Motor	Check for security, damage , operation & Replace yearly. (Last Change :)		
13.5	Starter Motor Solenoid	Check for the mounting and electrical wire for security		
13.6	Alternator Belt	Examine for intersecting cracks or fray		
13.7	Alternator	Check for correct charging rate , security & Replace yearly. (Last Change :)		
13.8	Proximity Switches (Bridge, Platform)	Check for security, damage & operation		
13.9	Foot pedal actuator	Check for security, damage, operation & Leak		
13.10	Hour meter	Check for security, damage & operation		
13.11	Ammeter	Check for security, damage & operation		
13.12	Fuel gauge	Check for security, damage & operation		
13.13	Dashboard lights	Check for security, damage & operation		
13.14	Headlights	Check for security, damage & operation		
13.15	Tail Lights	Check for security, damage & operation		
13.16	Signal Lights	Check for security, damage & operation		
13.17	Apron Light	Check for security, damage & operation		
13.18	Horn	Check for security, damage & operation		
13.19	Joy Sticks	Check for security, damage & operation		
13.20	Stabilizer Magnetic switch	Check for security, damage , operation & Replace 2 yearly. (Last Change :)		
13.21	Solenoid Coil	Check for security, damage , operation & Replace 2 yearly. (Last Change :)		
13.22	Emergency Kill Switch (button)	Check for security, damage & operation		
14	Body & Tyres			
14.1	Operator access ladder	Check for security, damage & operation		
14.2	Handrails and Mounting Brackets	Check for security, damage & operation		
14.3	Latches	Check for damage & lubricate		
14.4	Drive Wheel tires & Bogy Wheel	Check for cracks, cuts & wear		
14.5	Drive Wheel tires & Bogy Wheel	Check for security & damage		
14.6	Drive Wheel Nuts	Check for security & Retorque		
14.7	Tyres	Check for correct air pressure		
15	OPERATION TEST.			
15.1	Hydraulic system	Check for operation, pressure & leakage		
15.2	Engine	Check for Excessive vibration & smoke		
15.3	Steering system	Check for operation & effectiveness		
15.4	Electrical system	Check for operation		
15.5	Proximity Sensor & buzzer (Bridge)	Check for operation		
15.6	Brake Test	Brake Effectiveness		
15.7	Emergency Evacuations Procedure	Check all components working properly		
15.8	FOD & Missing Parts.	Carry out FOD check before pass out the equipment.		
15.9	Fire Extinguisher	Check expiry date and record		


sats GATEWAY		SATS MAINTENANCE CENTRE			
		LOADERS - JBT			
		MAINTENANCE SCHEDULE			
Equipment No. :		JOB No. :			
Hourmeter Reading :		Date :			
Mechanical Checks By :		S/No. :		Sign:	
Electrical Checks By :		S/No. :		Sign:	
QC Tested By :		S/No. :		Sign:	
S/No.	Maintenance Items	Service instruction	400hrs.	2000hrs.	Remarks
A					
General Items					
1	Perform walk-around inspection and check chassis and body components for obvious damage, missing parts and fluid leaks	Check			
2	Tires condition	Check			
3	Bogie wheel condition	Check			
4	Hydraulic oil, fuel, engine oil and engine coolant level	Check			
5	Operator's access ladder and mounting condition	Check			
6	All decals to be present and readable	Check			
7	Latches, hinges, and fasteners. Verify that they lock and fasten securely. Lubricate	Check			
8	Hand rails and mounting brackets condition	Check			
9	Platform edge rollers condition and drive coupling for being secure	Check			
10	Remove accumulated dirt, tar and grease For cleaning exterior parts, use waterjet cleaner	Clean			
11	Inspect front axle wheel hubs for leaks and signs of potential problems Check oil level in wheel hubs	Check			
12	Tie rods and joints	Lubricate			
13	Axle mounting hardware	Check			
14	Front wheel lug nuts	Tighten			
15	Wheels condition	Check			
16	Oil level in planetary gear hubs within the marking level	Check			
17	Secure all wiring terminal	Check			
18	Pivot pins on bridge lift cylinder	Check			
B					
Check functionality of these components					
1	Bogie wheels	Retract / Extend	Test		
2	Bridge	Raise / Lower	Test		
3	Bridge convey	Left / Right / Fwd / Aft	Test		
4	Bridge guides		Test		
5	Bridge tilt	Left / Right	Test		
6	Cab	Retract / Extend	Test		
7	Container Rotation	Clockwise / Counterclockwise	Test		
8	Dynamic Brakes		Test		
9	Emergency pump operation		Test		
10	Emergency stops		Test		
11	Folding wing left 2642 mm (104 in.) (Standard)	Raise / Lower	Test		
12	Folding wing left 3403 mm (134 in.) (Option)	Raise / Lower	Test		
13	Folding wing right 3403 mm(134 in.) (Option)	Raise / Lower	Test		
14	Overtravel switch		Test		
15	Parking brakes	Release / Apply	Test		
16	Platform Convey	Left / Right / Fwd / Aft	Test		
17	Platform rear load stop	Raise / Lower	Test		
18	Platform right load stop	Raise / Lower	Test		
19	Platform forward load stop	Raise / Lower	Test		
20	Platform left load stop	Raise / Lower	Test		
21	Propulsion	Forward / Reverse	Test		
22	Service brakes		Test		
23	Stabilizers	Retract / Extend	Test		
24	Steering		Test		


S/No.	Maintenance Items	Service instruction	400hrs.	2000hrs.	Remarks
C Engine					
1	Start power unit. Check gauges and indicators for indication of proper operation.	Check			
2	Engine oil	Top up/replace			
3	Engine oil filter	Replace			
4	Inspect power unit compartment for loose and missing items Replace and tighten if necessary	Check/ service			
5	Fuel filter	Check/replace			
6	Radiator	Clean			
7	Hoses condition	Check			
8	Nuts, bolts, harnesses, hoses and pipe connectors, etc	Tighten			
9	Check serpentine belt to be in good condition, and ensure belt tensioner works properly. No adjustment needed	Check			
10	Air cleaner element If cleaner is dented or damaged, check all connections and replace as needed	Clean & replace			
11	Exhaust	Check & repair			
12	Air cooler, turbocharger	Check & clean			
13	Check alternator, starter motor, governor, water pump, etc, and replace any components that might interfere with the proper functioning of the engine	Check & replace			
14	Engine protection device	Check			
15	Fuel tank	Drain sediment			
16	Lift pump sediment chamber	Clean			
D Steering System					
1	Steering cylinder pins	Lubricate			
2	Steering Cylinders	Inspect, clean & repair			
3	All steering arms, rods, and connections	Check & lubricate			
E Hydraulic System					
1	Hydraulic filter element	Check			
2	Hydraulic reservoir level	Check			
3	Inspect all hydraulic components for leaks and signs of potential problems	Check			
4	Hydraulic cylinders	Check			
5	Inspect hydraulic filters; with engine at high idle speed check indicators for differential pressures and clean or replace accordingly, if necessary	Check			
6	Check emergency hydraulic pump (electrical & mechanical)	Check			
7	Verify that all filters in the hydraulic system have been inspected and tested for differential pressures, and that they have been cleaned or replaced accordingly	Check			
8	Hydraulic oil tank breather	Clean & replace			
9	Hydraulic operated components such as pumps, steering valves, tank, steering cylinders, oil cooler, etc. Make sure all components are securely mounted	Check			
10	Hydraulic oil (Every 4000 hrs)	Flush and replace			
11	Hydraulic Hoses (Replace every 12000hrs or 6 years, whichever due first)	Replace			

S/No.	Maintenance Items	Service instruction	400hrs.	2000hrs.	Remarks
F	Brake System				
1	Pedal-operated brake valve. Ensure it is securely mounted	Check			
2	Service brakes condition	Check			
3	Parking brakes condition	Check			
G	Electrical System				
1	Check all lights and turn signal operation	Check			
2	Check backup alarm operation	Check			
3	Check horn operation	Check			
4	Check bridge/platform lowering alarm operation	Check			
5	Check bridge/platform lowering beacon operation	Check			
6	Check position beacon operation	Check			
7	Inspect and adjust belt for wear and deterioration	Check & replace			
8	Clean battery terminals and tighten holder	Clean			
9	Check electrolyte level in battery, if applicable	Check			
10	Check all accessible wiring and harnesses to make sure they are in good condition, securely connected and properly supported	Check			
11	Clean electrical parts such as junction boxes, switches and wiring	Clean			
12	Check emergency hydraulic pump (electrical & mechanical) for proper operation	Check			
13	Check overtravel switch for operation and integrity	Check			
14	Check proper operation of proximity switches, sensors and safety aid devices, such as neutral switch, approaching detection system, side object proximity system, under platform intrusion detection, etc.	Check			
15	Component mounting hardware	Tighten			
H	Bridge and Platform				
1	Condition, integrity, and operation of maintenance supports for bridge and platform	Check			
2	Roller assemblies	Check			
3	Pivot and slide points on platform	Lubricate			
4	Scissors pivot pins and rollers	Check & lubricate			
5	Chains on platform lift for wear and correct adjustment	Check & lubricate			
6	Clevis pins and snap rings for wear and damage on the lift chains	Check & replace			
7	Pivot pins on bridge lift cylinders	Check & lubricate			
8	Inspect operator's cab slides and rollers for wear and lubricate	Check & lubricate			
9	Wiring harness condition	Check			
10	Chain tension on all HeliRoll [®] and roller shafts	Check & lubricate			
11	Inspect and tighten eight Hex Head Cap screws that attach the operator's cab to the bridge. Replace if necessary	Check & tighten			
12	Inspect and tighten all mounting hardware that attach ladder to bridge and frame. Replace if necessary	Check & tighten			
13	Platform and scissors	Check for structural cracks			


S/No.	Maintenance Items	Service instruction	400hrs.	2000hrs.	Remarks
I	Drive Axles and Wheel Hubs				
1	Planetary gear hubs. Ensure correct level and use of recommended lubricating oil	Drain & refill			
2	Mounting hardware and suspension components. Replace components if damaged	Check & tighten			
3	Wheel mount retaining bolts and nuts	Retorque			
4	Tie rods and ball joints	Check & tighten			
J	Others				
1	Ladder	Check/Repair			
2	Fire extinguisher, validity date and seal	Check			
3	Periodically safety check and load test due	Check			
4	Anti-skid condition, replace if worn	Check			
5	Camera functionality and its accessories	Check			
6	Aircraft safety approaching system	Check			
7	Aircraft approach system towel lights	Check			
8	All safety proximity sensors	Check			

SATS GATEWAY		SATS MAINTENANCE CENTRE LOADER (Weihai)	
PREVENTIVE MAINTENANCE CHECKLIST			
Equipment No. :		JOB No. :	
Hourmeter Reading :		Date :	
Mechanical Checks By :		S/No. :	Sign:
Electrical Checks By :		S/No. :	Sign:
Tested By :		S/No. :	Sign:
S/No.	SYSTEM / SERVICE	A	C
1	Engine		
1.1	Valve Clearance	Check, adjust as necessary	
1.2	Rocker & Cover	Check for leak & security	
1.3	Timing Cover gasket/seal	Check for leak	
1.4	Engine oil	Drain, flush & replenish to the correct level	
1.5	Engine oil Filter	Replace element	
1.6	Oil Pressure	Check for leak & security	
1.7	Oil Cooler	Clean with dry air and(check for cracks & Leak)	
1.8	Oil sump gasket & Bolt	Check for leak & security	
1.9	Drain Plug	Check for leaks and security	
1.10	Engine Mounting(Front & Rear)	Check for cracks and security	
1.11	Flywheel Housing	Check for wear & security	
2	Cooling System		
2.1	Radiator Cap	Check condition, security and ensure correct pressure cap is installed correctly	
2.2	Radiator Hose	Check for cracks, loose clamps, damage and security of clamps	
2.3	Radiator	Check for external leaks and clean dirt builds up at cooler fins	
		Check level and top up as necessary	
		Drain, flush and fill coolant /water with proper mixture and level	
2.4	Radiator Mounting	Examine for cracks, damage and security	
2.5	Drain Valve	Examine for leaks and security	
2.6	Fan Cowling	Check for cracks and security	
2.7	Fan Belt	Examine for intersecting cracks, frayed or missing pieces	
2.8	Fan Belt pulley	Check for cracks and security	
2.9	Cooling Fan	Check for cracks and security	
3	ENGINE AIR SYSTEMS		
3.1	Air Filter.	Clean or Replace the element.	
3.2	Air Cleaner Assy	Check covers for cracks and security	
3.3	Turbo Changer	Check for cracks, security, leaks	
3.4	Hoses and Pipes	Check for cracks, security, leaks	
4	ENGINE FUEL SYSTEMS		
4.1	Fuel Tank	Check for leak and security	
4.2	Fuel Tank Cap	Check condition & security (Rubber seal)	
4.3	Tank Drain Plug	Check for security & leaks	
4.4	Hoses & Pipes & Unions	Check for damage, Leak & chafing. Replace the rubber hose 4 yearly . (Last Change :)	
4.5	Sediment bowl	Check condition & clean	
4.6	Fuel Filter	Replace element	
4.7	Fuel injectors	Check for leaks and operation	

		SATS MAINTENANCE CENTRE LOADER (Weihai) PREVENTIVE MAINTENANCE CHECKLIST		
4.8	Fuel Injector Pump	Check for leaks and operation		
4.9	Fuel lift Pump	Check for leaks and operation		
4.10	Throttle Linkage	Check for bend and security		
4.11	Solenoid	Examine for cracks, damage and security		
5	EXHAUST SYSTEM			
5.1	Silencer & Exhaust pipe	Check for cracks, security, leaks		
5.2	Exhaust Clamp support bracket & Flexible Mounting	Check for cracks, security.		
6	STEERING / WHEEL SYSTEM			
6.1	Wheel / Tyre assembly	Check for uneven wear, cuts & pressure		
6.2	Wheel Hub / Reduction gear	Check for cracks, leak & correct oil level		
6.3	Steering pump / cylinder & pipes	Check for security, damage & leaks		
6.4	Steering column	Examine for cracks, damage, security & condition		
6.5	Steering free play.	Check And Adjust the Free play.		
6.6	Hoses / Fitting	Check for kink, bent, security, damage & leaks		
6.7	Tie Rod & Ball Joint	Examine for, security & condition (wear & tear)		
7	FRONT AXLE			
7.1	Bolts , fittings and mountings	Check for security & damage.		
7.2	Planetary reduction oil	Check level & Top up, Replace		
8	BRAKE SYSTEM			
8.1	Brake caliper .	Check for crack, security, leaks		
8.2	Brake disc & Lining	Check for cracks & wear		
8.3	Hoses & Pipes & Connection	Check for kink, bent, security, damage & leaks		
8.4	Parking Brake switch	Check for security, damage & operation		
8.5	Service brake pedal travel	Check the clearness and Adjust		
9	HYDRAULIC SYSTEM			
9.1	Hydraulic tank , Cap Seal	Check for security, damage, leak & worn		
9.2	Hydraulic Oil	Check for Condemnation & correct level		
9.3	Hydraulic Oil	Every 2 yearly flush hydraulic tank & replace with new oil (Last Change :)		
9.4	Hydraulic Filter	Replace with oil change		
9.5	Hydraulic Pump & Motor	Check for security, damage, Leak & noise		
9.6	Hydraulic Pump	Check for operating pressure		
9.7	Hydraulic Hose & Fittings:	Check for damage, Leak & chafing. Replace 2 yearly for high pressure hose & 4 yearly for low pressure hose. (Last Change :)		
9.8	Hydraulic Lift cylinder (bridge & platform)	Check for security , damage, Leak . Replace all the cylinder 2 yearly (Last Change :)		
9.9	Stabilizers & Driver Motors	Check for security, damage, Leak & bent cylinder		
9.10	Bogy Wheel & Hydraulic Cylinder	Check for security, damage, Leak & wear		
9.11	All Control valve	Check for security, damage & Leak		
10	FORWARD SCISSORS			
10.1	Rear Scissors	Check for security, damage, crack & operation		
10.2	Scissors attaching Pin	Check for cracks & wear		
10.3	Lift chains & tension	Check for damage, tension & lubricate		
10.4	Chain Sheave & Assy	Check for security, damage & operation		
10.5	Scissors rollers	Check for security, damage, wear & operation		
10.6	Weld points cross member	Check for condition (damage & worn)		

		SATS MAINTENANCE CENTRE LOADER (Weihai)		
PREVENTIVE MAINTENANCE CHECKLIST				
10.7	Take up chains	Check for damage, tension & lubricate		
10.8	Chain attaching pivots	Check for stretch & wear		
10.9	Maint, Stands	Check for security, damage & greased		
10.10	Grease nipples	Check for security, damage & operation		
11	FORWARD PLATFORM			
11.1	Castors & Rollers	Check for security, damage, crack & operation		
11.2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
11.3	Pallet guides & stop linkages	Check for damage, tension & lubricate		
11.4	Stop & guides pivots	Check for security, damage & operation		
11.5	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
11.6	Pallet guides cylinders / pin	Check for condition (damage & worn)		
11.7	Limit switches actuation	Check for damage, tension & lubricate		
11.8	Hydraulic motor mounting	Check for cracks, security and leak		
11.9	Side Guardrail condition	Check for cracks & Bent		
12	REAR SCISSOR			
12.1	Rear Scissors	Check for security, damage, crack & operation		
12.2	Scissors attaching Pin	Check for cracks & wear		
12.3	Lift chains & tension	Check for damage, elongation, tension & lubricate		
12.4	Chain Sheave & Assy	Check for security, damage & operation		
12.5	Scissors rollers	Check for security, damage, wear & operation		
12.6	Weld points cross member	Check for condition (damage & worn)		
12.7	Take up chains	Check for damage, tension & lubricate		
12.8	Chain attaching pivots	Check for cracks & wear		
12.9	Maintenance safety stands /choke	Check for security, damage & grease		
12.10	Grease nipples	Check for security, damage & operation		
13	REAR PLATOFRM			
13.1	Castors & Rollers	Check for security, damage, worn or broken		
13.2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
13.3	Stop & guides pivots	Check for security, damage & operation		
13.4	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
13.5	Pallet guides cylinders / pin	Check for condition (damage & worn)		
13.6	Limit switches actuation	Check for damage, tension & lubricate		
13.7	Hydraulic motor mounting	Check for cracks, security and leak		
14	ELECTRICAL SYSTEM			
14.1	Battery	Check for electrolyte level & Replace Battery yearly		
14.2	Battery terminals & Wire	Clean terminal & Examine for cuts, abrasion, proper connection & security		
14.3	Electrical wiring / connection (All junction box)	Examine for cuts, abrasion, proper connection & security		
14.4	Starter Motor	Check for security, damage , operation & Replace yearly. (Last Change :)		
14.5	Starter Motor Solenoid	Check for the mounting and electrical wire for security		
14.6	Alternator Belt	Examine for intersecting cracks or fray		
14.7	Alternator	Check for correct charging rate , security & Replace yearly. (Last Change :)		
14.8	Proximity Switches (Bridge, Platform)	Check for security, damage & operation		
14.9	Foot pedal actuator	Check for security, damage, operation & Leak		
14.10	Hour meter	Check for security, damage & operation		
14.11	Ammeter	Check for security, damage & operation		

SATS GATEWAY		SATS MAINTENANCE CENTRE LOADER (Weihai)		
PREVENTIVE MAINTENANCE CHECKLIST				
14.12	Fuel gauge	Check for security, damage & operation		
14.13	Dashboard lights	Check for security, damage & operation		
14.14	Headlights	Check for security, damage & operation		
14.15	Tail Lights	Check for security, damage & operation		
14.16	Signal Lights	Check for security, damage & operation		
14.17	Apron Light	Check for security, damage & operation		
14.18	Horn	Check for security, damage & operation		
14.19	Joy Sticks	Check for security, damage & operation		
14.20	Stabilizer Magnetic switch	Check for security, damage , operation & Replace 2 yearly. (Last Change :)		
14.21	Solenoid Coil	Check for security, damage , operation & Replace 2 yearly. (Last Change :)		
14.22	EmergencySwitch (button)	Check for security, damage & operation		
14.23	Fuses and Breaker units.	Visual Check , Test / Inspect		
15	Body & Tyres			
15.1	Operator access ladder	Check for security, damage & operation		
15.2	Handrails and Mounting Brackets	Check for security, damage & operation		
15.3	Latches	Check for damage & lubricate		
15.4	Drive Wheel tires & Bogy Wheel	Check for cracks, cuts & wear		
15.5	Drive Wheel tires & Bogy Wheel	Check for security & damage		
15.6	Drive Wheel Nuts	Check for security & Retorque		
15.7	Tyres	Check for correct air pressure		
16	Cleanness and Paint work.			
16.1	Body & Paint work	Check for cleanliness & touch up with paint as necessary.		
16.2	Signage and Markings	Check for condition and proper marking.		
17	OPERATION TEST.			
17.1	Hydraulic system	Check for operation & leak		
17.2	Engine	Check for Excessive vibration & smoke		
17.3	Steering system	Check for operation & effectiveness		
17.4	Electrical system	Check for operation		
17.5	Proximity Sensor & Buzzer (Bridge)	Check for operation		
17.6	Brake Test	Brake Effectiveness		
17.7	Emergency Evacuations Procedure	Check all components working properly		
17.8	FOD & Missing Parts.	Carry out FOD check before pass out the equipments.		
17.9	Fire Extinguisher	Check expiry date and record		

		SATS MAINTENANCE CENTRE MDL / Airmarrel PREVENTIVE MAINTENANCE CHECKLIST			
		Equipment No. :		JOB No. :	
Hourmeter Reading :		Date :			
Mechanical Checks By :		S/No. :	Sign :		
Electrical Checks By :		S/No. :	Sign :		
QC Tested By :		S/No. :	Sign :		
S/No.	SYSTEM / SERVICE	400 hrs	2000 hrs	REMARKS	
A Engine					
1	Valve Clearance	Check, adjust as necessary			
2	Rocker & Cover	Check for leak & security			
3	Timing Cover gasket/seal	Check for leak			
4	Engine oil	Drain, flush & replenish to the correct level			
5	Engine oil Filter	Replace element			
6	Oil Cooler	Clean with dry air and(check for cracks & Leak)			
7	Oil sump gasket & Bolt	Check for leak & security			
8	Drain Plug	Check for leaks and security			
9	Engine Mounting(Front & Rear)	Check for cracks and security			
10	Flywheel Housing	Check for wear & security			
B Cooling System					
1	Radiator Cap	Check condition, security and ensure correct pressure cap is installed correctly			
2	Radiator Hose	Check for cracks, loose clamps, damage and security of clamps			
3	Radiator	Check for external leaks and clean dirt builds up at cooler fins			
		Check level and top up as necessary			
		Drain, flush and fill coolant /water with proper mixture and level			
4	Radiator Mounting	Examine for cracks, damage and security			
5	Drain Valve	Examine for leaks and security			
6	Fan Cowling	Check for cracks and security			
7	Fan Belt	Examine for intersecting cracks, frayed or missing pieces			
8	Fan Belt pulley	Check for cracks and security			
C ENGINE AIR SYSTEMS					
1	Air Cleaner Element	Replace the elements			
		Check and clean the element			
2	Air Cleaner Assy	Check covers for cracks and security			
3	Turbo Changer	Check for cracks, security, leaks			

S/No.	SYSTEM / SERVICE	400 hrs	2000 hrs	REMARKS
D	ENGINE FUEL SYSTEMS			
1	Fuel Tank	Check for leak and security		
2	Fuel Tank Cap	Check condition & security (Rubber seal)		
3	Tank Drain Plug	Check for security & leaks		
4	Hoses & Pipes & Unions	Check for damage, Leak & chafing. Replace the hose 6 yearly or 12000 hrs whichever due first. (Last Change :)		
5	Sediment bowl	Check condition & clean		
6	Fuel Filter	Replace element		
7	Fuel injectors	Check for leaks and operation		
8	Fuel Injector Pump	Check for leaks and operation		
9	Fuel lift Pump	Check for leaks and operation		
10	Throttle Linkage	Check for bend and security		
11	Solenoid	Examine for cracks, damage and security		
E	EXHAUST SYSTEM			
1	Silencer & Exhaust pipe	Check for cracks, security, leaks		
2	Exhaust Clamp support bracket & Flexible Mounting	Check for cracks, security, leaks		
F	STEERING / WHEEL SYSTEM			
1	Wheel / Tyre assembly	Check for uneven wear, cuts & pressure		
2	Wheel Hub / Reduction gear	Check for cracks, leak & correct oil level		
3	Steering motor / cylinder	Check for security, damage & leaks		
4	Steering column	Examine for cracks, damage, security & condition		
5	King Pin And Bushes	Check for condition (damage & worn)		
6	Turn Table mounting & Bearing	Examine for cracks, damage, security & condition		
7	Hoses / Fitting	Check for kink, bent, security, damage & leaks		
8	Tie Rod & Ball Joint	Examine for, security & condition (wear & tear)		
9	Drive axle & Planetary gear hub.	Check for Condemnation & correct level.		
10	Drive axle & Planetary gear hub oil	Check for leak & Replace 2000 Hrs (Last Change :)		
G	BRAKE SYSTEM			
1	Wheel cylinder (Air Marrel)	Check for crack, security, leaks		
2	Brake drum & Lining (Air Marrel)	Check for cracks & wear		
3	Hoses & Pipes & Connection	Check for kink, bent, security, damage & leaks		
4	Wheel Bearing	Check for condition (damage & worn)		
H	REAR SCISSOR			
1	Rear Scissors	Check for security, damage, crack & operation		
2	Scissors attaching Pin	Check for cracks & wear		
3	Lift chains & tension	Check for damage, elongation, tension & lubricate		
4	Chain Sheave & Assy	Check for security, damage & operation		
5	Scissors rollers	Check for security, damage, wear & operation		
6	Weld points cross member	Check for condition (damage & worn)		
7	Take up chains	Check for damage, tension & lubricate		
8	Chain attaching pivots	Check for cracks & wear		
9	Maintenance safety stands /choke	Check for security, damage & grease		
10.00	Grease nipples	Check for security, damage & operation		

S/No.	SYSTEM / SERVICE	400 hrs	2000 hrs	REMARKS
I	REAR PLATOFRM			
1	Castors & Rollers	Check for security, damage, worn or broken		
2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
3	Pallet guides & stop linkages	Check for damage, tension & lubricate		
4	Stop & guides pivots	Check for security, damage & operation		
5	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
6	Pallet guides cylinders / pin	Check for condition (damage & worn)		
7	Limit switches actuation	Check for damage, tension & lubricate		
8	Hydraulic motor mounting	Check for cracks & security		
9	Leakage	Check for security, damage & greased		
10	Torsion bar mounting bolts	Check for security, damage & apply LOCTITE		
11	Link offset of platform	Check for security, damage & operation		
J	HYDRAULIC SYSTEM			
1	Hydraulic tank , Cap Seal	Check for security, damage, leak & worn		
2	Hydraulic Oil	Check for Condemnation & correct level		
3	Hydraulic Oil	Every 4000 hrs flush hydraulic tank & replace with new oil (Last Change :)		
4	Hydraulic Strainer	Replace with oil change		
5	Hydraulic Filter	Replace with oil change		
6	Hydraulic Pump & Motor	Check for security, damage, Leak & noise		
7	Hydraulic Pump	Check for operating pressure		
8	Hydraulic Hose & Fittings	Check for damage, Leak & chafing. Replace 4000 hrs for high pressure hose & 12000 hrs or 6 yearly (whichever due first) for low pressure hose. (Last Change :)		
9	Hydraulic Lift cylinder (bridge & platform)	Check for security , damage, Leak . Replace all the cylinder 4000 hrs (Last Change :		
10	Stabilizers & Driver Motors	Check for security, damage, Leak & bent cylinder		
11	Bogy Wheel & Hydraulic Cylinder	Check for security, damage, Leak & wear		
12	All Control valve	Check for security, damage & Leak		
K	FORWARD SCISSORS			
1	Rear Scissors	Check for security, damage, crack & operation		
2	Scissors attaching Pin	Check for cracks & wear		
3	Lift chains & tension	Check for damage, tension & lubricate		
4	Chain Sheave & Assy	Check for security, damage & operation		
5	Scissors rollers	Check for security, damage, wear & operation		
6	Weld points cross member	Check for condition (damage & worn)		
7	Take up chains	Check for damage, tension & lubricate		
8	Chain attaching pivots	Check for stretch & wear		
9	Maint, Stands	Check for security, damage & greased		
10	Grease nipples	Check for security, damage & operation		

S/No.	SYSTEM / SERVICE	400 hrs	2000 hrs	REMARKS
L	FORWARD PLATFORM			
1	Castors & Rollers	Check for security, damage, crack & operation		
2	Drive Chain & sprockets	Check for cracks, wear & lubricate		
3	Pallet guides & stop linkages	Check for damage, tension & lubricate		
4	Stop & guides pivots	Check for security, damage & operation		
5	Forward pallet stop pivot point	Check for security, damage, wear & lubricate		
6	Pallet guides cylinders / pin	Check for condition (damage & worn)		
7	Limit switches actuation	Check for damage, tension & lubricate		
8	Hydraulic motor mounting	Check for cracks & security		
9	Leakage	Check for security, damage & greased		
10	Link offset of platform	Check for security, damage & operation		
M	ELECTRICAL SYSTEM			
1	Battery	Check for electrolyte level & Replace Battery 2000 hrs.		
2	Battery terminals & Wire	Clean terminal & Examine for cuts, abrasion, proper connection & security		
3	Electrical wiring / connection (All junction box)	Examine for cuts, abrasion, proper connection & security		
4	Starter Motor	Check for security, damage , operation & Replace 2000 hrs (Last Change :)		
5	Starter Motor Solenoid	Check for the mounting and electrical wire for security		
6	Alternator Belt	Examine for intersecting cracks or fray		
7	Alternator	Check for correct charging rate , security & Replace 2000 hrs.		
8	Proximity Switches (Bridge, Platform)	Check for security, damage & operation		
9	Foot pedal actuator	Check for security, damage, operation & Leak		
10	Hour meter	Check for security, damage & operation		
11	Ammeter	Check for security, damage & operation		
12	Fuel gauge	Check for security, damage & operation		
13	Dashboard lights	Check for security, damage & operation		
14	Headlights	Check for security, damage & operation		
15	Tail Lights	Check for security, damage & operation		
16	Signal Lights	Check for security, damage & operation		
17	Apron Light	Check for security, damage & operation		
18	Horn	Check for security, damage & operation		
19	Joy Sticks	Check for security, damage & operation		
20	Stabilizer Magnetic switch	Check for security, damage , operation & Replace 4000 hrs. (Last Change :)		
21	Solenoid Coil	Check for security, damage , operation & Replace 4000 hrs. (Last Change :)		
22	Emergency Kill Switch (button)	Check for security, damage & operation		

S/No.	SYSTEM / SERVICE	400 hrs	2000 hrs	REMARKS
N	Body & Tyres			
1	Operator access ladder	Check for security, damage & operation		
2	Handrails and Mounting Brackets	Check for security, damage & operation		
3	Latches	Check for damage & lubricate		
4	Drive Wheel tires & Bogy Wheel	Check for cracks, cuts & wear		
5	Drive Wheel tires & Bogy Wheel	Check for security & damage		
6	Drive Wheel Nuts	Check for security & Retorque		
7	Tyres	Check for correct air pressure		
0	OPERATION TEST.			
1	Hydraulic system	Check for operation, pressure & leakage		
2	Engine	Check for Excessive vibration & smoke		
3	Steering system	Check for operation & effectiveness		
4	Electrical system	Check for operation		
5	Proximity Sensor & Buzzer (Bridge)	Check for operation		
6	Brake Test	Brake Effectiveness		
7	Emergency Evacuations Procedure	Check all components working properly		
8	FOD & Missing Parts.	Carry out FOD check before pass out the equipments.		
9	Fire Extinguisher	Check expiry date and record		
10	Ladder	Check & Repair		
11	Bridge bumper anti-collision sensor	Check & Repair		
12	Aircraft approach towel lights	Check & Repair		

