

Hako- System- Wartung

Hako- System- Maintenance

Hako- Citymaster 1250

Hako- Citymaster 1250 (1433.21) Classic
Hako- Citymaster 1250 (1433.22) Comfort mit Klimaanlage (AC)
Hako- Citymaster 1250 C (1433.31) Classic
Hako- Citymaster 1250 C (1433.32) Comfort mit Klimaanlage (AC)

Hako-System Maintenance Delivery (in-house standards for delivery)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed		Techn. data
Damages in transit	P	
Delivery acc. to order	P set-up, fill up fuel	
Engine	P oil lever	
Hydraulic System	P oil level after mounting and trial ride with implements	
Tire Pressure	P check inflation pressure (tires: 195R14C)	3,5 bar
Seat contact switch	P test with accel. pedal to engine stop	
Windscreen washer system	P	
Coolant	P	
Bio oil sticker	P	
Trial ride	with compl. delivery including funct. check for all implements to be supplied according to the order completeness of coding plugs for purchased implements	
Delivery	P manual basic machine manual of implements enclosure accompan. documents	
Driver instruction	incl. specific safety instructions	
Driver training **	spare driver, substitute for holidays shift work	

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

* = at least once yearly

** = against specific accounting

Hako System Maintenance A 2 (in-house standards for delivery)**Works to be performed****Techn. data:**

Works to be performed	Techn. data:
Hako System Maintenance 250 for attached implements and tools	
Perform all maintenance and service works as specified by manufacturer	
Safety check of all tools P mower blades, brush/broom, spreader etc.	
Completeness and function of all safety and protective elements P	
Trial ride P	

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

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** = against specific accounting

Hako System Maintenance K (part of the instruction manual)

to be performed by the customer

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:		Techn. data
Maintenance and service works to be performed by the owner:		
Each work day:		
	clean machine as required	
Engine	P oil level	8.5 l SAE 15W40
	P air filter, check indicator	
Fill fuel oil		
Coolant level	P (compensation tank)	
Combined radiator	P oil / water (clean)	
Weekly in addition		
Clean machine as required		
Hydraulic system	P check oil level	
Lubrication compl.:	P Sweepin unit, front tool carrier,	grease gun
	suction mouth (17)	grease:
	Pedals (3X)	
	Hinge (2X)	
	Hopper (6X)	
Details can be found in the operators manual CM 1250		
Lighting system	P	
Tire pressure	P check inflation pressure	3,0 bar
	(tires 195R14C)	
Trial ride	P incl. brake test	

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

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** = against specific accounting

Hako System Maintenance unique (50 h. of operat.)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:
Techn. data:

Clean machine, if required **

Engine	W engine oil	W	8,6 ltr SAE 15-W-40
	W engine oil filter	W	PN 01140320
	W fuel filter	W	PN 01140330
	P drain water separator		
	P engine idling speed		1100 1/min +/- 50
	P engine service speed		2450 1/min +/- 25
	P engine max. speed		2750 1/min +/- 25
	P check V-belt generator for tension		PN 01142880
	P check V-belt air condition for tension		PN 01143290
	P check radiator and coolant hoses for leakage		
	P check combined radiator and radiator grill for soiling		
Brakes	P check brake fluid of service brake, top up if required		0,5 ltr SAE J 1703
	P check service brake function readjust if required		
	P check parking brake function readjust if required		
	P Check bowden cables from the parking brake brake for damages and wearing		
Tires	P check wheel bolt for tight seating		Nm 160
	P check inflation pressure		
	195 R14 C		3,5 bar
	215/ 65 R14 C		2,9 bar
	26X 12.00- 12 TL8 8PR		1,5 bar

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

* = at least once yearly

** = against specific accounting

Hako System Maintenance unique (50 h. of operat.)

Works to be performed: 50h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
Suction fan	P check soiling	
	P check fan speed with 2750 engine rpm	2600 1/min fan speed
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
Flap of dirt hopper	P check baffle plate for wearing	PN 01161060
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	P check function of heating	
	P check function of air conditioner	
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweeping unit, front tool carrier, suction mouth (17)	
	P Pedals (3X)	
	P Hinge (2X)	
	P Hopper (6X)	
Details can be found in the operators manual CM 1250		

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance I* (250 h. of operat.)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:		Techn. data:
Clean machine, if required **		
Engine	W engine oil	W 8,6 ltr SAE 15-W-40
	W engine oil filter	W PN 01140320
	P drain water separator	
	P clean air filter element	
	P check V-belt generator for tension	PN 01142880
	P check V-belt air condition for tension	PN 01143290
	P check radiator and coolant hoses for leakage	
	P check combined radiator and radiator grill for soiling, clean if required	
Brakes	P check brake fluid of service brake, top up if required	0,5 ltr SAE J 1703
	P check service brake function readjust if required	
	P check parking brake function readjust if required	
	P Check bowden cables from the parking brake for damages and wearing	
Tires	P check wheel bolt for tight seating	Nm 160
	P check inflation pressure	
	195 R14 C	3,5 bar
	215/ 65 R14 C	2,9 bar
	26X 12.00- 12 TL8 8PR	1,5 bar

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

* = at least once yearly

** = against specific accounting

Hako System Maintenance I* (250 h. of operat.)

Works to be performed: Every 250h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
Suction fan	P check soiling	
	P check bearing clearance if there are any vibrations at the suction fan	
	P check the suction sieve from the fan for soiling and damages	
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
Flap of dirt hopper	P check baffle plate for wearing	PN 01161060
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	P clean air filter cabin	
	P check function of heating	
	P check function of air conditioner	
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweepin unit, front tool carrier, suction mouth (17)	
	P Pedals (3X)	
	P Hinge (2X)	
	P Hopper (6X)	
Details can be found in the operators manual CM 1250!		

P = Test: function, leakage, refill, adjust
W = replace (W) = change if required
* = at least once yearly
** = against specific accounting

Hako System Maintenance II* (500 h. of operat.)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:
Techn. data:

Clean machine, if required **

Engine	W engine oil	W	8,5 ltr SAE 15-W-40
	W engine oil filter	W	PN 01140320
	W fuel filter	W	PN 01140330
	P drain water separator		PN 01144310
	W change air filter element	W	PN 01143470
	P check V-belt generator for tension		PN 01142880
	P check V-belt air condition for tension		PN 01143290
	P check radiator and coolant hoses for leakage		
	P check combined radiator and radiator grill for soiling, clean if required		
Brakes	P check brake fluid of service brake, top up if required		0,5 ltr SAE J 1703
	P check service brake function		
	P readjust if required		
	P check parking brake function readjust if required		
	P Check bowden cables from the parking brake for damages and wearing		
Tires	P check wheel bolt for tight seating		Nm 160
	P check inflation pressure		
	195 R14 C		3,5 bar
	215/ 65 R14 C		2,9 bar
	26X 12.00- 12 TL8 8PR		1,5 bar

P = Test: function, leakage, refill, adjust

W = replace (W) = change if required

* = at least once yearly

** = against specific accounting

Works to be performed: Every 500h of operating		Techn. data:
Hydraulic system	W replace hydraulic oil filter	PN 01092790
	P check oil level	sight glass
	P check function of hydraulic system	
	P check hydraulic system at the hydraulic cylinders, screw connections and hydraulic lines for leakage	
	P check function of hand pump (lift dirt hopper by using hand pump)	
Steering (Hydr.)	P check for function and ease of movement	
	P check ball heads of steering cylinder	
Bowden cables	P check for function and ease of movement as well as neutral position	
	Check for damages and wearing	
Sweeping unit	P check for damages and wearing	
	P check sweeping track and adjust if required	
	P water spray system: check spray nozzles, spray nozzle filter and filter sieve and clean if required	
Suction unit	P check for damages and wearing	
	P check adjustment of suction unit	clearance to the ground: front 3 + 2 mm rear 8 + 2 mm
	P check suction hose for damages and firm seat	
	P check sealing between suction pipe and dirt hopper	
	P check function of fresh water nozzle and recirculation water system at the suction unit	
	P check the flap from the suction unit for damages and wearing	

P = Test: function, leakage, refill, adjust
W = replace (W) = change if required
* = at least once yearly
** = against specific accounting

Works to be performed: Every 500h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
	P check soiling	
	P check bearing clearance if there are any vibrations at the suction fan	
	P check the suction sieve from the fan for soiling and damages	
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
	Flap of dirt hopper	P check baffle plate for wearing
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	P clean air filter cabin	
	P check function of heating	
	P check function of air conditioner	
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweepin unit, front tool carrier, suction mouth (17)	
	P Pedals (3X)	
	P Hinge (2X)	
	P Hopper (6X)	
Details can be found in the operators manual CM 1250!		

P = Test: function, leakage, refill, adjust
W = replace (W) = change if required
* = at least once yearly
** = against specific accounting

Hako System Maintenance III* / S* (1000 h. of operat. safety check)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:		Techn. data:	
Clean machine, if required **			
Engine	W engine oil	W	8,6 ltr SAE 15-W-40
	W engine oil filter	W	PN 01140320
	W fuel filter	W	PN 01140330
	P drain water separator		PN 01144310
	W change air filter element	W	PN 01143470
	W replace safety cartridge of air cleaner		PN 01143480
	P check V-belt generator for tension		PN 01142880
	P check V-belt air condition for tension		PN 01143290
	P check radiator and coolant hoses for leakage		
	P check combined radiator and radiator grill for soiling, clean if required		
	P check air gap inlet/outlet with cold engine, readjust if required		inlet/outlet valves: 0,20 mm
	W replace diaphragm in valve bonnet of engine ventilation system		PN 01144410
	W change coolant (anti-freeze for winter operation!)		7,5 ltr. water incl. 40 - 60% coolant additive Glacelf Auto Supra
	P engine idling speed		1100 1/min +/- 50
	P engine service speed		2450 1/min +/- 25
	P engine max. speed		2750 1/min +/- 25

Hako System Maintenance III* / S* (1000 h. of operat. safety check)

Works to be performed: Every 1000h of operating		Techn. data:
Brakes	P check brake fluid of service brake, top up if required	0,5 ltr SAE J 1703
	P check service brake function	
	P check brake shoes; change if required	2x PN 00302060 2x PN 00301890
	P readjust if required	
	P check parking brake function readjust if required	
	P Check bowden cables from the parking brake brake for damages and wearing	
Wheels	P check wheel bolt for tight seating (even after wheel change)	130 Nm
Tires	P check tires (damage, tread depth)	
	P check inflation pressure	
	195 R14 C	3,5 bar
	215/ 65 R14 C	2,9 bar
	26X 12.00- 12 TL8 8PR	1,5 bar
Hydraulic System	P Sample of oil from the hydraulic oil, and let check the oil sample.	
	W replace hydraulic oil filter	PN 01092790
	W replace ventilation filter in hydraulic tank	PN 01082600
	P check oil level	
	P Remove oil sample and have examined	
	P check function of hydraulic system	
	P check hydraulic system at the hydraulic cylinders, screw connections and hydraulic lines for leakage	
	P check function of hand pump (lift dirt hopper by using hand pump)	

Hako System Maintenance III* / S* (1000 h. of operat. safety check)

Works to be performed: Every 1000h of operating		Techn. data:
Bowden cables	P check at engine group (1x)	PN 01166240
	P check at drive pump (2x)	PN 01140240
Drive pedal	P check for function and ease of movement, replace parts or drive pedal if required	PN 01168770
Articulated joint	P check play and rubber damper	
Sweeping unit	P check for damages and wearing	
	P check sweeping track and adjust if required	
	P water spray system: check spray nozzles, spray nozzle filter and filter sieve and clean if required	
Suction unit	P check for damages and wearing	
	P check adjustment of suction unit clearance to the ground	front 3 + 2 mm rear 8 + 2 mm
	P check suction hose for damages and firm seat	
	P check sealing between suction pipe and dirt hopper	
	P check function of fresh water nozzle and recirculation water system at the suction unit	
	P check the flap from the suction unit for damages and wearing	

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance III* / S* (1000 h. of operat. safety check)

Works to be performed: Every 1000h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
	W replace the rubber buffer from the (4X) suction fan	W PN 01160950
	P check suction fan for speed with 2750 engine rpm.	2600 1/min fan rpm
	P check bearing clearance if there are any vibrations at the suction fan	
	P check the suction sieve from the fan for soiling and damages	
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
Flap of dirt hopper	P check baffle plate for wearing	PN 01161060
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	W air filter cabin	
	W with air conditioning	W PN 01065540
	W without air conditioning	W PN 01063650
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweepin unit, front tool carrier, suction mouth (17)	
	Pedals (3X)	
	Hinge (2X)	
	Hopper (6X)	
Details can be found in the operators manual CM 1250!		

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance III* / S* (2000 h. of operat. safety check)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:		Techn. data:	
Clean machine, if required **			
Engine	W engine oil	W	8,6 ltr SAE 15-W-40
	W engine oil filter	W	PN 01140320
	W fuel filter		PN 01140330
	P drain water separator		PN 01144310
	W change air filter element	W	PN 01143470
	W replace safety cartridge of air cleaner		PN 01143480
	W change V-belt generator (alternator)	W	PN 01142880
	W change V-belt air condition	W	PN 01143290
	P check radiator and coolant hoses for leakage		
	P check combined radiator and radiator grill for soiling, clean if required		
	P check air gap inlet/outlet with cold engine, readjust if required		inlet/outlet valves: 0,20 mm
	W replace diaphragm in valve bonnet of engine ventilation system		PN 01144410
	W change coolant (anti-freeze for winter operation!)		7,5 ltr. water incl. 40 - 60% coolant additive Glacelf Auto Supra
	P engine idling speed		1100 1/min +/- 50
	P engine service speed		2450 1/min +/- 25
	P engine max. speed		2750 1/min +/- 25

Hako System Maintenance III* / S* (2000 h. of operat. safety check)

Works to be performed: Every 2000h of operating		Techn. data:
Drive pedal	W replace drive pedal after 2000 hours with bowden cables!	PN 01168770
Articulated joint	P check play and rubber damper	
Sweeping unit	P check for damages and wearing P check sweeping track and adjust if required P water spray system: check spray nozzles, spray nozzle filter and filter sieve and clean if required	
Suction unit	P check for damages and wearing P check adjustment of suction unit clearance to the ground	front 3 + 2 mm rear 8 + 2 mm
	P check suction hose for damages and firm seat	
	P check sealing between suction pipe and dirt hopper	
	P check function of fresh water nozzle and recirculation water system at the suction unit	
	P check the flap from the suction unit for damages and wearing	

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance III* / S* (2000 h. of operat. safety check)

Works to be performed: Every 2000h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
	W replace the rubber buffer from the (4X) suction fan	PN 01160950
	P check suction fan for speed with 2750 engine rpm.	2600 1/min fan rpm
	P check bearing clearance if there are any vibrations at the suction fan	
	P check the suction sieve from the fan for soiling and damages	
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
Flap of dirt hopper	P check baffle plate for wearing	PN 01161060
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	W air filter cabin	
	with air conditioning	PN 01065540
	without air conditioning	PN 01063650
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweepin unit, front tool carrier, suction mouth (17)	
	Pedals (3X)	
	Hinge (2X)	
	Hopper (6X)	
Details can be found in the operators manual CM 1250!		

Hako System Maintenance III* / S* (3000 h. of operat. safety check)

to be performed by authorised Hako Service

Serial no.: _____

Operating hours: _____

Customer: _____

Works to be performed:		Techn. data:	
Clean machine, if required **			
Engine	W engine oil	W	8,6 ltr SAE 15-W-40
	W engine oil filter	W	PN 01140320
	W fuel filter	W	PN 01140330
	P drain water separator		PN 01144310
	W change air filter element	W	PN 01143470
	W replace safety cartridge of air cleaner	W	PN 01143480
	P check V-belt generator for tension		PN 01142880
	P check V-belt air condition for tension		PN 01143290
	P check radiator and coolant hoses for leakage		
	P check combined radiator and radiator grill for soiling, clean if required		
	P check air gap inlet/outlet with cold engine, readjust if required		inlet/outlet valves: 0,20 mm
	W replace diaphragm in valve bonnet of engine ventilation system		PN 01144410
	W change coolant (anti-freeze for winter operation!)		7,5 ltr. water incl. 40 - 60% coolant additive Glacelf Auto Supra
	P engine idling speed		1100 1/min +/- 50
	P engine service speed		2450 1/min +/- 25
	P engine max. speed		2750 1/min +/- 25

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance III* / S* (3000 h. of operat. safety check)

Works to be performed: Every 3000h of operating		Techn. data:
Brakes	W change brake fluid	0,5 ltr SAE J 1703
	P check service brake function	
	P check brake shoes;	2x PN 00302060
	change if required	2x PN 00301890
	P readjust if required	
	P check parking brake function	
	readjust if required	
	P Check bowden cables from the parking brake	
	brake for damages and wearing	
Wheels	P check wheel bolt for tight seating	130 Nm
	(even after wheel change)	
Tires	P check tires	
	(damage, tread depth)	
	P check inflation pressure	
	195 R14 C	3,5 bar
	215/ 65 R14 C	2,9 bar
	26X 12.00- 12 TL8 8PR	1,5 bar
Hydraulic System	W Changing the hydraulik oil, HVLP 46	W 45 L
	W replace hydraulic oil filter	W PN 01092790
	W replace ventilation filter in hydraulic tank	W PN 01082600
	P check oil level	sight glass
	P check function of hydraulic system	
	P check hydraulic system at the hydraulic	
	cylinders, screw connections	
	and hydraulic lines for leakage	
	P check function of hand pump	
	(lift dirt hopper by using hand pump)	

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
 * = at least once yearly
 ** = against specific accounting

Hako System Maintenance III* / S* (3000 h. of operat. safety check)

Works to be performed: Every 3000h of operating		Techn. data:
Bowden cables	P check at engine group (1x)	PN 01166240
	P check at drive pump (2x)	PN 01140240
Drive pedal	P check for function and ease of movement, replace parts or drive pedal if required	PN 01168770
Articulated joint	P check play and rubber damper	
Sweeping unit	P check for damages and wearing	
	P check sweeping track and adjust if required	
	P water spray system: check spray nozzles, spray nozzle filter and filter sieve and clean if required	
Suction unit	P check for damages and wearing	
	P check adjustment of suction unit clearance to the ground	front 3 + 2 mm rear 8 + 2 mm
	P check suction hose for damages and firm seat	
	P check sealing between suction pipe and dirt hopper	
	P check function of fresh water nozzle and recirculation water system at the suction unit	
	P check the flap from the suction unit for damages and wearing	

Hako System Maintenance III* / S* (3000 h. of operat. safety check)

Works to be performed: Every 3000h of operating		Techn. data:
Dirt hopper	P check for soiling	
	P check function of bog ground flap	
	W replace the rubber buffer from the (4X) suction fan	PN 01160950
	P check suction fan for speed with 2750 engine rpm.	2600 1/min fan rpm
	P check bearing clearance if there are any vibrations at the suction fan	
	P check the suction sieve from the fan for soiling and damages	
	P check hydraulic motor and lines for density (hydraulic motor and lines for leakages)	
Flap of dirt hopper	P check baffle plate for wearing	P PN 01161060
	P check sealings of the flap for density and damages	
	P check cover joint and bearing of hopper flap	
	P check exhaust air side of the flap for soiling	
Electric System	P check function	
Wiring	P check for chaffing marks and damages	
Battery	P charging condition	
	P clean and grease battery terminals	
Cabin	W air filter cabin	
	with air conditioning	PN 01065540
	without air conditioning	PN 01063650
Windscreen washer fluid	P windscreen washer fluid	
Lubrication compl.:	P Sweepin unit, front tool carrier, suction mouth (17)	
	Pedals (3X)	
	Hinge (2X)	
	Hopper (6X)	
Details can be found in the operators manual CM 1250!		

P = Test: function, leakage, refill, adjust
 W = replace (W) = change if required
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Hako System Maintenance (in-house standards)

Spare part demand for:

- Wearing parts
- Parts for operational safety
- Parts for accident prevention

Hako System Maintenance unique (50)		
<i>Pcs.</i>	<i>PN</i>	<i>Description</i>
1	01140320	engine oil filter
1	01140330	fuel filter
1	01092790	return filter (hydraulic system)
<i>Liter</i>	<i>Resources</i>	
8,6	Engine oil	SAE 15 W 40
Hako System Maintenance I* (250)		
<i>Pcs.</i>	<i>PN</i>	<i>Description</i>
1	01140320	engine oil filter
<i>Liter</i>	<i>Resources</i>	
8,6	Engine oil	SAE 15 W 40
Hako System Maintenance II* (500)		
<i>Pcs.</i>	<i>PN</i>	<i>Description</i>
1	01140320	engine oil filter
1	01140330	fuel filter
1	01143470	air filter element
<i>Liter</i>	<i>Resources</i>	
8,6	Engine oil	SAE 15 W 40

Hako System Maintenance (in-house standards)

Spare part demand for: Wearing parts
 Parts for operational safety
 Parts for accident prevention

Hako System Maintenance III* (1000)		
<i>Pcs.</i>	<i>PN</i>	<i>Description</i>
1	01140320	engine oil filter
1	01140330	fuel filter
1	01143470	air filter element
1	01143480	safety cartridge of air cleaner
1	01082600	ventilation filter in hydraulic tank
1	01092790	return filter (hydraulic system)
1	01144410	diaphragm in valve bonnet
1	01144130	gasket valve bonnet
1	01065540	air filter cabin with A/C
1	01063650	air filter cabin without A/C
4	01160950	Rubber buffers from the suction fan, check and replace if required.
1	(01166240)	Bowden cable engine, check and replace if required.
2	01140240	Bowden cable drive pump, check and replace if required
1	(01168770)	Drive pedal, check and replace if required
4	01160950	Rubber buffers from the suction fan, check and replace if required.
2	(00302060)	brake shoes, check and replace if required
2	(00301890)	brake shoes, check and replace if required
1	(01161060)	baffle plate, check and replace if required
<i>Liter</i>	<i>Resources</i>	
8,6	Engine oil	SAE 15 W 40
Hako System Maintenance III* (2000)		
<i>Pcs.</i>	<i>PN</i>	<i>Description</i>
1	01140320	engine oil filter
1	01140330	fuel filter
1	01143470	air filter element
1	01143480	safety cartridge of air cleaner
1	01142880	V -belt generator (alternator)
1	01143290	V- belt air condition
1	01082600	ventilation filter in hydraulic tank
1	01092790	return filter (hydraulic system)
1	01144410	diaphragm in valve bonnet
1	01144130	gasket valve bonnet
1	01065540	air filter cabin with A/C
1	01063650	air filter cabin without A/C
4	01160950	Rubber buffers from the suction fan
1	01168770	Replace drive pedal with bowden cables!
2	01168560	bowden cable parking brake
2	(00302060)	brake shoes, check and replace if required
2	(00301890)	brake shoes, check and replace if required
1	(01161060)	baffle plate, check and replace if required.
<i>Liter</i>	<i>Resources</i>	
8,6	Engine oil	SAE 15 W 40
7,5	Coolant	water incl. 40 - 60 % coolant additive Glaceelf Auto Supra

<p>Hako System Maintenance A Set-up - Trial ride Delivery to customer Instruction Driver training **</p>	<p>Hako System Maintenance unique 50 h. of operat.</p>
<p>Hako System Maintenance I 250 h. of operat.</p>	<p>Hako System Maintenance II 500 h. of operat.</p>
<p>Hako System Maintenance I 750 h. of operat.</p>	<p>Safety Check! Hako System Maintenance III 1000 h. of operat.</p>
<p>Hako System Maintenance I 1250 h. of operat.</p>	<p>Hako System Maintenance II. 1500 h. of operat.</p>
<p>Hako System Maintenance I 1750 h. of operat.</p>	<p>Safety Check! Hako System Maintenance III 2000 h. of operat.</p>
<p>Hako System Maintenance I 2250 h. of operat.</p>	<p>Hako System Maintenance II. 2500 h. of operat.</p>
<p>Hako System Maintenance I 2750 h. of operat.</p>	<p>Safety Check! Hako System Maintenance III 3000 h. of operat. Replace the hydraulic oil!</p>
<p>Hako System Maintenance I 3250 h. of operat.</p>	<p>Hako System Maintenance II 3500 h. of operat.</p>
<p>Hako System Maintenance I 3750 h. of operat.</p>	<p>Safety Check! Hako System Maintenance III 4000 h. of operat.</p>

Hako System Maintenance I 4250 h. of operat.	Hako System Maintenance II 4500 h. of operat.
Hako System Maintenance I 4750 h. of operat.	Safety Check! Hako System Maintenance III 5000 h. of operat.
Hako System Maintenance I 5250 h. of operat.	Hako System Maintenance II 5500 h. of operat.
Hako System Maintenance I 5750 h. of operat.	Safety Check! Hako System Maintenance III 6000 h. of operat. Replace the hydraulic oil!
Hako System Maintenance I 6250 h. of operat.	Hako System Maintenance II 6500 h. of operat.
Hako System Maintenance I 6750 h. of operat.	Safety Check! Hako System Maintenance III 7000 h. of operat.
Hako System Maintenance I 7250 h. of operat.	Hako System Maintenance II 7500 h. of operat.
Hako- System- Wartung I 7750 h. of operat.	Safety Check! Hako-System-Wartung III 8000 h. of operat.
Hako- System- Wartung I 8250 h. of operat.	Hako-System-Wartung II 8500 h. of operat.

<p>Hako System Maintenance I 8750 h. of operat.</p>	<p>Safety Check! Hako System Maintenance III 9000 h. of operat. Replace the hydraulic oil!</p>
<p>Hako- System- Maintenance I 9250 h. of operat.</p>	<p>Hako-System- Maintenance II 9500 h. of operat.</p>
<p>Hako- System- Maintenance I 9750 h. of operat.</p>	<p>Safety Check! Hako-System- Maintenance III 10000 h. of operat.</p>
<p>Hako- System- Maintenance I 10250 h. of operat.</p>	<p>Hako-System- Maintenance II 10500 h. of operat.</p>
<p>Hako- System- Maintenance I 10750 h. of operat.</p>	<p>Safety Check! Hako-System- Maintenance III 11000 h. of operat.</p>
<p>Hako- System- Maintenance I 11250 h. of operat.</p>	<p>Hako-System- Maintenance II 11500 h. of operat.</p>
<p>Hako- System- Maintenance I 11750 h. of operat.</p>	<p>Safety Check! Hako-System- Maintenance III 12000 Betr. Std. Replace the hydraulic oil!</p>