

Engine - 86kw Tier 3A

Customer	Location	Registration Number
Service Required	Hours	EQ
Technician	Mileage	Date

These procedures should be carried out by trained personnel. For further information, refer to the Johnston VT Operators Guide, Maintenance Section and the engine manufacturer's manual.

Black shaded boxes do not need action on that service.

Mark check boxes as ✓ = OK and R=requires attention. Items requiring attention should be detailed on the Job Sheet.

D	W	Daily and weekly checks must be carried out as part of the service tasks.	PART NUMBER (* = PART OF KIT)	Qty
		Check oil level in hydraulic reservoir - top up if required.	94 - 12	As Required
		Check auxiliary engine oil level - top up if required.	94 - 23	As Required
		Check auxiliary engine radiator coolant level - top up if required.	94 - 21	As Required
		Check auxiliary engine radiator is not obstructed.		
		Check air filter state indicator - service air filter if red.	295095 - 2 295095 - 3	As required
		Check mesh screens in body are clean and fitted correctly.		
		Check centre baffle is in position - duals only.		
		Check for mechanical damage to brush gear and report damage.		
		Check brushes for adjustment and wear - adjust or replace as required.		
		Check spray jets for correct operation - clean if necessary.		
		Check for oil/water/fuel leakages.		
		Check chassis items as recommended in chassis manufacturer's handbook.		
		Check/Clean fuel pre-filter bowl sedimentor.		
		Check oil level in 'Z' drive gearbox - top up if required.	94 - 67	As Required
		Check fan/engine bay is clean of oil etc.		
		Check auxiliary engine drive belt tensions/condition.	848 - 41	1
		Check suction fan impeller, wear plates and intake flap for wear, renew if necessary.		
		Check routing of electric and hydraulic services for chafing.		
		Lubricate all grease points.		
		Check water pump suction filters.	277 - 247	1
		Check oil level and condition in Supawash pump if fitted.	94 - 67	As Required

Additional Comments:

50 – Hour				Daily and weekly checks must be carried out as part of the service. Use recommended service kits as indicated. A = Every 500 Hours, B = Every 1000 Hours, C = Every 2000 Hours or annually D = Every 4000 Hours or 2 years.	PART NUMBER (* = PART OF KIT)	Qty	
A – Kit 840-215							
B – Kit 840-216							
C – Kit 840-217							
D – Kit 840-218							
✓	✓	✓	✓	Drain and refill 'Z' drive gearbox.	94 - 67	1.75 Ltrs	
				Drain and refill Supawash pump (if fitted).	94 - 67	0.37 Ltrs	
				Check for outstanding Technical Bulletins. Implement as required.			
				Check software revision and update.			
				Reset service indicator icon.			
				Change auxiliary engine oil and renew filter. (Do not over fill).	855 -1*	7-8 Ltrs	
				Renew fuel pre-filter sedimentor element.	848 – 40*	1	
				Renew the fuel filter.	848 – 39*	1	
				Renew auxiliary engine air cleaner elements.	295095 - 2* 295095 - 3*	1 1	
				Check auxiliary engine throttle control and engine idle for correct operation.			
				Clean duct in body roof.			
				Check the fluid flywheel oil level.	94 - 12	As Required	
				Check auxiliary engine coolant concentration gives -39°C frost protection.	94 - 21	As Required	
				Check Supawash pump (if fitted) for the correct operation of jets and any plunger seal leaks. (Service as necessary).	As required	As Required	
				Renew hydraulic return filter element.	7025972*	1	
				Renew water pump suction filter.	277 - 247*	1	
				Check security of sweeping equipment.			
				Valve clearances - Check and Adjust.			
				Replace auxiliary engine drive belt.	848 – 41*	1	
				Drain and refill hydraulic reservoir.	94 - 12	As Required	
				Clean/replace suction filters and refill hydraulic reservoir.	7005390*	2	
				Cooling system - Drain and refill to -39°C frost protection.	94 - 21	As Required	
				Drain and refill fluid flywheel.	94 - 12	4.85 Ltrs	
Carry out "road test" - to check all relevant functions.				Check and record pressures below. (See maintenance section for procedures and JVM display).			
System pressure 190 Bar		Hopper Lower pressure 110 Bar		Hopper Raise pressure 190 Bar		Powaboom pressure 40 Bar	Sweep functions & settings
Supawash Water pressure 100 Bar		Low Water pressure 3.5 Bar		Pneumatic system pressure 7.8 Bar		Software revision	Water functions

All waste products should be disposed of in accordance with local waste disposal regulations.

Additional Comments/sketch:	Technician Name (Block Capitals)	Signature	Date
	Customer Representative (Block Capitals)	Signature	Date