



ENGINE INSTALLATION COMMISSIONING



Component Job Nr:

Artisan:

Customer:

Commissioning Job Nr:

Date:

Date:

Signature

Signature

Date Started:	
Date Completed:	
Customer PO:	
Fleet Nr:	
Site:	
Machine Model:	
Machine Serial Nr:	
Machine Hours (SMR):	
Artisan Doing Install:	
Signature:	
Engine Model:	
Comp Serial No (Removed):	
Comp Arrangement No:	
Comp Serial No (Installed):	
Comp Arrangement No:	

Comments/ Notes:					
Hours:	Repair Centre To:	New	Used	Recon	Repair
	Repair Centre From:				

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ENGINE CHANGE OUT AND COMMISSIONING PROCEDURE

Comments	Inspection Scope	Yes	No	N/A	New	Used	Recon	Repair
1	Quality Assurance Documents from repair centre							
2	Obtain OEM removal and installation procedure							
3	Check crank shaft end float to OEM specs. After installation (dial gauge)							
4	Inspect engine mountings front and rear							
5	Cooling package (Radiator, after coolers etc)							
6	Coolant hoses condition (including clamps)							
7	Coolant conditioner checked							
8	Radiator cap condition							
9	Bleed and pressure test cooling system							
10	Check for leaks under pressure							
11	Are fan belts in good condition and tension							
12	Fan drive and tensioner condition							
13	Fan drive and tensioner grease							
14	Fan blades correct orientation							
15	Turbo							
16	Intercooler / Aftercooler condition							
17	Air inlet system (clamping, hoses, steel pipes, filter housing, dust ejector)							
18	Air filter indicator							
19	Air filters							
20	Fuel systems (pump, injection lines, retainers)							
21	Fuel filters primary							
22	Fuel filters secondary and or screen							
23	Fuel water separators							
24	Fuel tank, tank vent, fuel lines and sediment drain valve							
25	Electrical installation on engine (harness condition routing and clamping)							
26	Batteries and cables							

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ENGINE CHANGE OUT AND COMMISSIONING PROCEDURE

Comments	Inspection Scope	Yes	No	N/A	New	Used	Recon	Repair
27	Starter connections and mounting							
28	Alternator connections and mounting							
29	ECM connections and mounting							
30	Exhaust system (general condition)							
31	Heat shields							
32	Muffler							
33	Engine oil level							
34	Check engine oil pan and drain plug							
35	Check all fluid levels before start up							
36	Check all clamping, hose routing and hardware							
37	Breathers and pipes							
38	Aircon compressor and condenser							
39	Aircon v-belts condition							
40	Aircon status (recharged, vacuumed)							
41	Engine dash gauges operational (temp, oil, water level sensor, etc.)							
42	Are engine protection devices functional?							
43	Any fuel leaks on engine?							
44	Any exhaust gasses leaking?							
45	Any oil leaks on engine?							
46	Water leaks after start up							
47	Air conditioner working properly							
48	Cab heater system working properly							
49	Operator / Mechanic to test drive machine and report							
50	Obtain engine sample after commissioning and testing (Sample nr. _____)							
51	Obtain coolant sample after commissioning and testing (Sample nr. _____)							
52	On 50 hours CEP require oil samples with SMR and new ET report							
53	Inform CEP when 500hrs service interval is due to check and adjust valves							

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Comments	Condition Monitoring	Unit of Measure	Specification	Actual	Satisfactory	
					Yes	No
1	Crank until oil pressure build up	KPA / PSI				
2	Engine oil pressure at low idle	KPA / PSI				
3	Engine oil pressure at high idle	KPA / PSI				
4	Engine oil pressure at full load	KPA / PSI				
5	Low idle engine RPM	RPM				
6	High idle engine RPM	RPM				
7	Converter stall RPM (as applicable)	RPM				
8	Converter lockup RPM (as applicable)	RPM				
9	Cooling fan speed	RPM				
10	Boost pressure at stall RPM	KPA / PSI				
11	Fuel pressure at low idle	KPA / PSI				
12	Fuel pressure at high idle	KPA / PSI				
13	Radiator pressure relief	KPA / PSI				
14	Coolant temperature at normal operation point	°C				
15	Radiator temperature drop	°C				
16	Electronic download done (CAT ET) or OEM Standard	Attach Report				
17	Injector cut out test (as applicable)	Attach Report				
18	Cranking actuation pressure (as applicable)	Attach Report				

Please ensure that all OEM specs are inserted in the above columns where needed.
 This template can be used on all the engine commission reports.
 Please feel free to suggest any improvements of this document.

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