

# PLANNED MAINTENANCE CHECKLIST FULL SERVICE

CUSTOMER DETAILS										
CUSTOMER: WHEAT	ON PROPERTY PARTNERS - 4	)218	DAT	Έ:	08/17/24					
ADDRESS: 120 E L	SEF	SERVICE ORDER #: 76208								
WHEAT	ON IL 60187		FA	<b>FA JOB ID:</b> J1605103						
SITE NAME: WHEAT	N PROPERTY PARTNER TECHNICIAN: Arthur/Jim									
CONTACT NAME: NATHA	N SANDS		COI	NTACT EMAIL:	nsands@wa	velandprop.com				
ASSET NAME: 120 E. I	LIBERTY		COI	NTACT TEL:	630-230122					
PROI	DUCT DETAILS			SECONI	DARY PRO	DUCT DETAILS:				
PRODUCT MANUFACTU	RER: ONAN: STANDBY SY	STEM	MA	NUFACTURER:	**	Cummins				
PRODUCT MODEL:	750.0DQFAA-7229298	-A	мо	DEL:		QST30-G5				
PRODUCT SERIAL:	H080202837		SEF	RIAL:		37236913				
PROD HOURS / MILES /	KM: 1245		НО	JRS / MILES / K	M:	1245				
PASS N/A NEEDS ATTN.	A. PRE-OPERATIONAL  B. BATTERIES AND BA  Battery install date: Record highest and lowe High: Battery load test:  Battery 1: Float Volts: Battery 2: Float Volts: Battery 3: Float Volts: Battery 4: Float Volts:	TTERY C	G-23 c gravit	Float Volts:	25.8 1.27 1400 1465 1455	Current:  Ambient temp:  Pass/Fail:  Pass/Fail:  Pass/Fail:	1.3 75 Pass Pass			
	C. COOLING SYSTEM  Last coolant fill date:  Jacket water temp:  Coolant Properties:	06-AU	5	(Belts, °F Coolin	oolant maint hoses, cool ng system pro	ant):	7/06 3 PSI			
	Freeze point:  Sulfates:  Pass  LTA Coolant:  Freeze point:  n.a			DCA Concentration:  Chlorides:  Appearance:  Appearance:  n.a  PH level:  PH level:			Ok n.a			

PASS N/A	NEEDS ATTN.											
<b>V</b>		D. GENSET CONTROLS AND ACCESSORIES										
<b>V</b>	E. MAIN ALTERNATOR											
1		F. FUEL SYSTEM	. FUEL SYSTEM									
		Main tan	Main tank fuel level: 1/2 Second Main tank fuel level: n.a									
		Day tank fuel level: n.a										
	Fuel pressure: 1 Running: 61 Loaded: 62											
<b>√</b>	G. INTAKE AND EXHAUST SYSTEMS											
<b>√</b>		H. ENGINE AND	LUBRICATI	ON SYS	TEM							
1		I. GENERATOR C	PERATION	IS								
<b>V</b>		J. LUBRICATION	OIL AND F	ILTRAT	ON SERV	ICE						
<b>V</b>		K. TRANSFER SI	WITCH / SW	/ITCHGE	AR	::F						
		Measure and reco	ord utility / so	ource on	e voltage:							
<b>V</b>		L. SYSTEM OPE	RATIONAL T	TEST								
		Genset test witho			permitted	by:						
		Record engine an		٦	01		193	Coolant tamp	166			
1		Oil pressure:	62	-		perature:		Coolant temp:				
							Exhaust temp:					
		Coolant press:	480	-		wby flow:	Ok 60	LTA temp: Load PF:				
		Genset Voltage: Current:	460		Gense	it ireq/nz		Load ( ) .				
		A:	0			В:	0	C:	0			
		Load kW:	0		L.	oad kVA:	0	Load kVAR:	0			
		Duration system t	est:	30	Minute	es						
Changed oil, fuel Checked all clam Pulled gen end co	M. SITE PRE-DEPARTURE VERIFICATION  Comments: Drive to site. Gained access to unit. Filled out jsa. LOTO unit. Changed oil, fuel and coolant filters plus oil. Take oil sample. Checked all clamps and connections. Tested coolant with strips. Coolant tested bad. Unit is due for CSM Pulled gen end covers and control. Checked all connections. Returned gen to auto. Perform no load test for ats. Everything else okay at this time											
	1	TECHNICIAN			TECHN	NICIAN SIG			DATE:			
Cummins OneBl Charlotte NC 282		CHETOMER	Arthur/Jim		CHETA	OMER SIGN	Arthur/Jim		08/17/24 DATE:			
	•	CUSTOMER	IAWE:		00310	Juien Sign	ATUNE.		onie:			
INTERNAL USE	ONLY				EPA	ID, if differen	t from Cummins:					
Transporter/Destina	ation Branch: (	Choose One	)									
Quantity of Us Being Shipped in G	Quantity of Used Oil 35  Transporter Signature:  [A)-Automotive											
	Quantity of Used Oil Filters: 6 Generator Signature:											



## PLANNED MAINTENANCE CHECKLIST FULL SERVICE

Below is the scope of work performed during the above planned maintenance checklist. Any additional repairs, parts, or service which are required will be brought to the attention of the owner. Repairs will only be made after proper authorization from the owner is given to Cummins Sales and Service. Any additional repairs, maintenance or service performed by Cummins Sales and Service for a Planned Maintenance Agreement holder will be at Cummins Sales and Service labor rates.

#### A. PRE-OPERATIONAL CHECKS

- 1. All equipment automated, no alarms or faults on controls
- Check fluid levels and observe for leaks. Oil, Fuel and Coolant
- Verify battery chargers, component heaters and accessories are operational
- Safety Audit, Lock Out/ Tag Out Procedures Followed, Safe Service Operations

#### **B. BATTERIES AND BATTERY CHARGER**

- 1, Check battery charger functions and record voltage and
- 2. Cable connections, termination cleanliness and security
- Check electrolyte level, vent caps and specific gravity of all cells in the starting battery system
- 3.a Record highest and lowest specific gravity measured.
- Perform Battery load test on all starting batteries and record CCA, ambient temperature, float volts, hold volts, and if the battery passed or failed testing.

#### C. ENGINE COOLING SYSTEM

- 1. Inspect all hoses and clamps for leaks and condition
- 2. Inspect radiator cap and filler neck condition
- 3. Inspect drive belts, observe alignment and deflection
- Confirm proper coolant heater operation and record jacket water temperature
- Verify Coolant properties and record the freeze point, DCA concentration, PH level, Sulfates, Chlorides, and appearance.
- Inspect radiator surfaces, shrouds and barriers for obstruction, build up and mechanical damages
- Verify LTA coolant properties and record the freeze point, PH level, and appearance (if applicable)
- 8. Optional coolant sampling

### D. GENSET CONTROLS AND ACCESSORIES

- 1. Check all engine mounted wiring, senders and devices
- 2. Check all control mounted components and wiring
- 3. Check all connecting plugs
- 4. Check all accessory components and wiring
- 5. Function test lights and indicators

#### E. MAIN ALTERNATOR

- 1. Remove covers and inspect terminals, wiring and component
- 2. Visually inspect main rotor and stator
- Visually inspect exciter components and PMG (where equipped)
- Manually operate generator main breaker(s) open and closed

#### F. FUEL SYSTEM

- 1. Check main and secondary (if applicable) tank fuel and record levels
- 2. Check day tank fuel and record level (if applicable)
- Check day tank controls and pumps. Test operate day tank controls where available (if applicable)
- 4. Check all fuel hose, clamps, pipes, components and fittings
- 5. Check fuel pressure and record readings running and loaded
- 6. Check governor linkage (if applicable)

- 7. Water in Fuel Test Sub-base, day tanks or as noted on agreement
- 8. Rupture/ Containment Basin Inspection (if applicable)

#### G. INTAKE AND EXHAUST SYSTEMS

- 1. Check air cleaner element
- 2. Check intake system
- 3. Check exhaust system and rain cap
- 4. Check louver operations (if applicable)

#### H. ENGINE AND LUBRICATION SYSTEM

- 1. Check lubrication system
- Check crankcase ventilation system
- 3. Check spark ignited ignition system (if applicable)

#### I. GENERATOR OPERATIONS

- 1. Start and observe generator and equipment operations
- 2. Verify engine and generator safeties as applicable

#### J. LUBRICATION OIL AND FILTRATION SERVICE

- 1. Change lube oil
- 2. Change lube oil filters, apply date and run hours to filter canister
- 3. Change fuel filters, apply date and run hours to filter canister
- 4. Drain sediment from coolant heater where equipped
- Change coolant filters as equipped, apply date, freeze point and dca concentration to canister
- 6. Pressure test cooling system and record PSI readings
- 7. Check fan, water pump, drives and pulleys
- 8. Grease serviceable bearings
- 9. Post Lube service operation of Genset unloaded
- 10. Oil sample for laboratory analysis when recommended"
- 11. Change crankcase ventilation filter (if applicable)

#### K. TRANSFER SWITCH/ SWITCHGEAR

- 1. Inspect all power and control wiring
- 2. Inspect switch mechanism and enclosure
- Inspect controls and time delay settings
- Check exercise clock
- 5. Verify remote start control operation
- 6. Measure and record utility/ source one voltage

#### L. SYSTEM OPERATIONAL TESTS

- Genset test with or without load, if not allowed document decision maker
- During test without load record engine oil pressure, oil temperature, coolant temperature, battery voltage, engine speed, exhaust temperature, coolant pressure, blowby flow, LTA temperature. Also record generator voltage on all phases, frequency, current on all phases, load PF, load KW Load KVA and Load KVAR.
- 3. Record duration of system test in minutes

#### M. SITE PRE-DEPARTURE VERIFICATION

- 1, All applied energy source lock out devices removed
- 2. All controls and components in AUTO/REMOTE
- All GENSET breakers ON/CLOSED (except power operated paralleling breakers)
- 4. Battery Charger operational/ breaker ON
- 5. Component heaters enabled/ breaker ON
- Site Cleanup



# **USED OIL TRANSPORT INFORMATION**

- \* IN CASE OF EMERGENCY ON A PUBLIC ROADWAY, CALL 9-1-1
- \* IN THE EVENT OF A SPILL, CALL HERITAGE CRYSTAL CLEAN (877-938-7948) OR CLEAN HARBORS (800-645-8265)
- \* FEDERAL REGULATION REQUIRES EACH REGISTERED PERSON TO MAINTAIN RECORDS ON EITHER THIS OR A SUBSTANTIALLY EQUIVALENT FORM WHICH CONTAINS THE SAME INFORMATION. THIS INFORMATION MUST BE KEPT ON-SITE FOR THREE (3) YEARS AND BE AVAILABLE DURING NORMAL BUSINESS HOURS.
- \* HALOGEN CONTENT DETERMINED BASED ON CUMMINS' ENGINE SERVICE AND PROCESS KNOWLEDGE, AND CONFIRMATION TESTING BY HERITAGE CRYSTAL CLEAN (or other transporter noted)
- \* FLORIDA END USE CODE: (N)-SHIPMENT TRANSFERRED TO ANOTHER FACILITY FOR STORAGE OR PROCESSING (NOT END USE)

NA PMFS v1.3



# **LOAD BANK TEST DATA FORM**

CUSTOMER DETAILS								
CUSTOMER:	WHEATON PROPERTY PARTNERS - 40218	DATE:	08/17/24					
ADDRESS:	120 E LIBERTY STREET	SERVICE ORDER #	: 76208					
	WHEATON IL 60187	FA JOB ID:	J1605103					
SITE NAME:	WHEATON PROPERTY PARTNER	TECHNICIAN:	Arthur/Jim					
CONTACT NAM	E: NATHAN SANDS	CONTACT EMAIL:	nsands@wavelandprop.com					
ASSET NAME:	120 E. LIBERTY	CONTACT TEL:	630-2301221					
	PRODUCT DETAILS	SECONDARY PRODUCT DETAILS:						
PRODUCT MAN	UFACTURER: ONAN : STANDBY SYSTEM	MANUFACTURER:	Cummins					
PRODUCT MOD	<b>EL:</b> 750.0DQFAA-7229298-A	MODEL:	QST30-G5					
PRODUCT SERI	<b>AL:</b> H080202837	SERIAL:	37236913					
PROD HOURS /	MILES / KM: 1245	HOURS / MILES / K	<b>CM:</b> 1245					

KW:	750	FUEL LEVEL START:	3/4
PHASE:	3	FUEL LEVEL END:	1/2
HERTZ:	60	HOURS BEFORE:	1245
VOLTAGE:	480	HOURS AFTER:	1247
TEST PURPOSE:	2hr load bank		

MIN	TEST TIME	HOURMETER	KW	% LOAD	VOLTAGE PHASE 1	VOLTAGE PHASE 2	VOLTAGE PHASE 3	AMPERAGE PHASE 1	AMPERAGE PHASE 2	AMPERAGE PHASE 3	GEN FREQ	AMBIENT TEMP	OIL PRESS	OIL TEMP	WATER TEMP	EXHAUST TEMP	FUEL PRESSURE
START	9:35	1245	743	99	481	481	481	880	880	879	60	73	59	195	174	n.a	62
	9:50	1245	742	99	480	480	480	880	880	880	60	73	59	197	176	n.a	62
	10:05	1246	742	99	480	480	480	880	880	880	60	73	58	202	178	n.a	62
	10:20	1246	742	99	480	480	480	880	880	880	60	74	57	202	179	n.a	62
	10:35	1246	742	99	480	480	480	880	880	880	60	74	57	202	179	n.a	62
	10:50	1246	742	99	480	480	480	880	880	880	60	74	57	203	180	n.a	62
	11:05	1247	742	99	480	480	480	880	880	880	60	74	57	204	181	n.a	62
	11:20	1247	742	99	480	480	480	880	880	880	60	74	57	203	181	n.a	62
	11:35	1247	742	99	480	480	480	880	880	880	60	75	57	203	181	n.a	62
	Cool do	1247	0	0	480	480	480	0	0	0	60	75	62	187	165	n.a	61
	000144			<u> </u>	<u> </u>								The second second	-			
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END			***************************************														

### COMMENTS:

Run 3 runs per phase plus a ground. Used cable ramps to protect cables and foot traffic. Setup safety cones. Run unit at full load for 2hrs. Cool down. Clean up site. Return gen to auto.

Cummins OneBMS US Charlotte NC 28241	TECHNICIAN NAME:  Arthur/Jim	TECHNICIAN SIGNATURE: Arthur/Jim	<b>DATE:</b> 08/17/24
	CUSTOMER NAME:	CUSTOMER SIGNATURE:	DATE: