

# INVOICE

# 234926427-001

Customer # :  
 Work Order Date: 06/11/24  
 Invoice date :  
 UR Job Loc :  
 UR Job # :  
 Customer Job ID :  
 P.O. # :  
 Authorized : GENERATOR REPAIR  
 Written by :

EQUIP #      Make      Model      Serial #      Description  
 COE404116      ATLAS COPCO      QAS78JDS      USA013229      GENERATOR 70-84 KVA  
 CustEq#: OCG&S 3229      Hr Meter:      1.000      Cat/Class 240-3186

PARTS:

Qty	Part Number	Description	StkCl	Bin Loc	Unit of Measure
1	2914900001	VOLTAGE REGULATOR	ATLAS		EACH
1	FR PARTS	FREIGHT ON PARTS	MCI		EACH
1	1089945573	MODULE, CONTROL	ATLAS		EACH
1	SHOP	SHOP SUPPLIES	MCI		EACH
1	ENV	ENVIRONMENTAL SERVIC	MCI		EACH

LABOR:

Mechanic	Hours Work	Service Date
	1.00 COE-TRAVEL LABOR	06/10/24
	2.50 COE-DIAGNOSTIC	06/10/24
	1.00 COE-TRAVEL LABOR	06/11/24
	2.00 COE-DIAGNOSTIC	06/11/24
	1.00 COE-TRAVEL LABOR	06/17/24
	2.50 COE-ELECTRICAL, ALTERNATORS, &	06/17/24

ISSUE:  
 UNIT WILL START AND SHUT DOWN WITH LOW VOLTAGE LIG  
 HT ON

CAUSE:  
 ARRIVED AT THE UNIT AND VERIFIED UNIT IS FULL OF F  
 LUIDS. MADE SURE THE GENERATOR WOULD NOT PUT POWE  
 R TO THE BUILDING. STARTED MACHINE AND VERIFIED T  
 HAT THE GENERATOR WAS PUTTING OUT ABOUT 100V AND F  
 WOULD SHUT DOWN WITH A LOW VOLTAGE CODE. CHECKED  
 WIRES IN THE CONTROLL PANEL AND FOUND THEM TO BE G  
 OOD. REMOVED THE REAR PANEL OF THE GENERATOR AND  
 TOP COVER THE THE GENERATOR BOX. CHECKED ALL WIRI  
 NG AND LOOKS GOOD. REMOVED THE AVR FROM THE UNIT  
 AND FOUND IT TO NOT BE TURNING ON WHEN THE UNIT IS  
 RUNNING. TALKING WITH ATLAS COPCO WE REMOVED THE  
 AVR FROM THE UNIT AND TESTED WIRES ON THE GENERAT  
 OR SIDE. AFTER BYPASSING THE AVR THE UNIT WILL RU  
 N AT FULL VOLTAGE AND FULL LOAD. THE ALTERNATOR I  
 S NOW KNOWN TO BE GOOD AND THE AVR IS BAD AND NOT  
 TELLING THE ALTERNATOR TO COME ON AND PRODUCE MORE  
 THAT STATIC VOLTAGE OF 35V PER LEG

CONTINUED...



EQUIP #	Make	Model	Serial #
COE404116	ATLAS COPCO	QAS78JDS	USA013229

CustEqp#: OCG&S 3229 Hr Meter: 1.000  
 AFTER INSTALL OF NEW AVR AND STARTING SWITCH ASSY  
 THE UNIT WILL STILL NOT MAKE VOLTAGE. AFTER SPEAK  
 ING WITH SEVERAL ATLAS COPCO TECHS AND TESTING FOR  
 VOLTAGES. THE UNIT NEEDS A NEW ALTERNATOR OR REWO  
 UND AS THE CONTROL WIRES GOING TO THE AVR HAVE NO  
 POWER TO START THE AVR UNIT UP. AFTER LOOKING FOR  
 SEVERAL WEEKS WE HAVE FOUND NO COMPANY THAT WILL  
 REWIND THE ASSY AND THEY DO NOT MAKE THE ALTERNATO  
 R FOR THIS MACHINE ANYMORE AS IT HAS BEEN CYCLED O  
 UT.

CORRECTION:  
 UNIT NEEDS AN AVR MODULE. ALSO NEEDS START STOP S  
 WITCH DUE TO NOT FUNCTIONING OTHER THAN IN REMOTE  
 SIDE.  
 ORDERING PARTS AND TALKED WITH CUSTOMER ABOUT DOIN  
 G A LOAD BANK ON THE MACHINE.  
 6/18/24- INSTALLED NEW SWITCH AND AVR ON THE MACHI  
 NE. STILL NOT OPERATING ON THE GENERATOR SIDE BUT  
 THE START SWITCH IS OPERATING AS IT SHOULD. TALKI  
 NG WITH ATLAS COPCO FOR OVER AN HOUR AND TRIED TO  
 PROGRAM THE AVR ON THE MACHINE AND DID NOT WORK.  
 THEY ARE GOING TO TALK WITH MECALTE AND SEE WHAT I  
 S GOING ON WITH THE GENERATOR OR THE AVR SIDE..  
 SPOKE WITH CUSTOMER AND HAVE TOLD THEM WE HAVE DON  
 E ALL WE ARE ABLE TO DO AND THE UNIT CAN NOT BE RE  
 PAIRED AS THEY DO NOT SELL THE PARTS WE NEED AND H  
 AVE FOUND NO COMPANIES THAT CAN REPAIR WHAT IS BRO  
 KEN.

Total Parts & Materials  
 Total Labor  
 Tax  
 Total Amount