

INVOICE #	EMWK3314693
INVOICE #	
Invoice Date	05-31-22

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ORDER BY: [REDACTED]

MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACH. I.D. NUMBER
AA	D6N LGP	0ALY00421	1803003	23597.0	
QUANTITY	ITEM	*NON-RETURNABLE	DESCRIPTION	UNIT PRICE	EXTENSION

\* \* \* INVOICE SUMMARY \* \* \*

TOTAL LABOR [REDACTED]  
TOTAL MISC CHGS [REDACTED]

SEGMENT 00 TOTAL [REDACTED]

REMOVE, RECON, INSTALL RADIATOR  
COMPLAINT: REMOVE, RECONDITION AND INSTALL COOLING  
PACKAGE

\*  
CORRECTION: REMOVED FAN GUARD ASSEMBLY, REMOVED  
FAN ASSEMBLY, REMOVED FRONT BELLY PAN, HAD TO  
CLEAN TO ACCESS BOLTS ON COOLING SYSTEM PACKAGE.  
REMOVED CLAMPS FROM AIR COOLER AND RADIATOR  
COOLANT HOSES. REMOVED ALL HOSES. REMOVED OIL

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CREDIT AMOUNT	

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COOLER LINES FROM BOTTOM OF RADIATOR. SET UP RIGGING ON COOLING SYSTEM PACKAGE TO CRANE AND REMOVED BOTTOM BOLTS. CLEANED HOLES TO REMOVE BOLTS. REMOVED BOLTS ON COOLING SYSTEM PACKAGE AND SET A SIDE OF EQUIPMENT.

\*

PICKED UP COOLING PACKAGE AT RED EYE GOT TO JOB SITE INSPECTED EQUIPMENT AND CRANE AND RIGGING ON SERVICE TRUCK. INSTALLED RIGGING ONTO COOLING PACKAGE. SET ON GROUND. SET HOSES AND CLAMPS FOR COOLING PACKAGE. INSTALLED COOLING PACKAGE INTO PLACE ON EQUIPMENT. INSTALLED COOLANT HOSES WITH NEW CLAMPS. INSTALLED AIR COOLER HOSES WITH NEW CLAMPS. INSTALLED HOSES FROM TRANSMSSION AND TORQUE CONVERTER ONTO COOLER. INSTALLED HYDRAULIC COOLER ONTO COOLING PACKAGE WITH HOSES. ROUTED HARNESS AND INSTALLED NEW WATER SENSOR ON TANK.

\*

TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 09 TOTAL

## TROUBLE SHOOT ENGINE

COMPLAINT: ENGINE HAS BLOWN HEAD GASKET OR CRACKED CYLINDER HEAD. CLIENT PULLED EXHAUST MANIFOLD AND THERE WAS COOLANT PRESENT

\*

CAUSE: FUEL IN ENGINE UP TO CYLINDER HEAD AND OIL IN RESERVOIR TANK

\*

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CORRECTION: VERIFIED FLUID IN EXHAUST MANIFOLD.  
 FLUID COMING OUT OF LINE OF TURBO OIL SUPPLY LINE.  
 CHECKED FLUID IT WAS FUEL. CHECKED COOLANT INSIDE  
 RESERVOIR HAD OIL IN TANK. CHECKED OIL DIP STICK  
 HAD FUEL TO THE TOP OF DIP STICK. REMOVED AIR  
 FILTER ASSEMBLY, REMOVED SIDE PANELS REMOVED VALVE  
 COVER. HAD FUEL UP TO VALVE TRAIN, ENGINE IS FULL  
 OF FUEL TOOK PICTURES AND REINSTALLED VALVE COVER.

\*

TOTAL LABOR  
 SEGMENT 10 TOTAL

## REMOVE &amp; INSTALL ENGINE

COMPLAINT: ENGINE HAS BLOWN HEAD GASKET OR CRACKED  
 CYLINDER HEAD

\*

CAUSE: FUEL IN ENGINE UP TO CYLINDER HEAD AND OIL  
 IN RESERVOIR TANK

\*

CORRECTION: INSPECTED EQUIPMENT, REMOVED HOOD  
 ASSEMBLY. REMOVED LOWER SIDE ENGINE PANELS.  
 REMOVED BOLTS FROM HYDRAULIC OIL COOLER. REMOVED  
 LINES FROM COOLER. REMOVED HYDRAULIC COOLER AND  
 SET A SIDE. REMOVED BRACKET FROM HOSES. REMOVED  
 FLOOR BOARD FROM CAB. REMOVED REAR ENGINE SIDE  
 PANELS. REMOVED REAR BELLY PAN HAD TO USE PROPER  
 CRIBBING TO HOLD BELLY PAN HAD 4 INCH GAP FROM  
 BELLY PAN TO COME ALONGS LOWERED REAR BELLY PAN  
 AND STARTED ON REMOVING HOSES ON PUMPS.

\*

REMOVED HOLD DOWN ON COOLING PACKAGE SET RIGGING  
 LIFTED WITH CRANE SET ASIDE ON GROUND REMOVED  
 RIGGING USED FORKLIFT TO SET ON TRIANGLE AREA FOR

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REMOVAL OR TAKE TO REDEYE SET UP RIGGING ON ENGINE  
LIFTED WITH CRANE AND SET ON GROUND PICKED UP  
ENGINE STAND SET ENGINE ON ENGINE STAND HAD TO  
ADJUST ENGINE STAND TO ENGINE STRAPPED ENGINE DOWN  
SET UP SHIPPING TAG AND SENT ENGINE TO MESA.

\*

PICKED UP ENGINE AND PARTS NEEDED AT SHOP. ARRIVED  
AT JOB SITE AND INSPECT EQUIPMENT. CLEANED PARTS,  
REMOVED ENGINE FROM ENGINE STAND. INSTALLED NEW  
ORING ON TO TORQUE CONVERTER SET UP RIGGING FOR  
LINING UP ENGINE. INSTALLED ENGINE TO TORQUE  
CONVERTER, INSTALLED NEW RUBBER MOUNTS AND  
INSTALLED REAR ENGINE MOUNT. LOWERED ENGINE INTO  
PLACE AND INSTALLED BOLTS TO ENGINE MOUNTS AND  
TIGHTEN. CONNECTED WIRING HARNESS TO ENGINE AND  
INSTALLED AC COMPRESSOR INTO PLACE ON ENGINE.

\*

INSTALLED MUFFLER, INSTALLED FILTER ASSEMBLY WITH  
HOSES. INSTALLED CLAMPS ONTO TURBO WENT TO INSTALL  
FUEL HOSES COULDN'T INSTALL RETURN HOSE REGULATOR  
DIDN'T HAVE SLIP ON FOR FUEL HOSE. WILL GET  
CORRECTED PARTS AND SOME FUEL HOSES. INSTALLED  
HOSES.

\*

TRIED STARTING CRANKING ENGINE NO CRANK OR START  
HAD POWER GOING TO STARTER CHECKED FUSES OK.  
CHECKED KEY SWITCH POWER TO STARTER NO POWER WHEN  
TURNING KEY SWITCH, NEED TO CONTINUE  
TROUBLESHOOTING NO START.

\*

INSPECTED EQUIPMENT, WENT TO TROUBLESHOOT NO CRANK  
NO START. LOOKED IN SCHEMATIC, CHECKED FUNCTION OF  
PARKING BRAKE, PARKING BRAKE WOULDN'T ENGAGE ALL  
THE WAY SO EQUIPMENT WOULDN'T START. GOT EQUIPMENT

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TO CRANK. PRIMED FUEL, CHECK FLUIDS AND STARTED  
EQUIPMENT CHECKED FOR LEAKS.

\*

TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 11 TOTAL

## REPLACE FAN

COMPLAINT: REPLACE FAN SPIDER AND HARDWARE

\*

CORRECTION: REMOVED OLD SPIDER ASSEMBLY FROM  
ADAPTER. CLEANED SURFACE OF ADAPTER AND INSTALLED  
NEW SPIDER ASSEMBLY ONTO ADAPTER. INSTALLED  
ADAPTER TO ENGINE FAN PULLEY. INSTALLED FAN GUARDS  
WITH NEW HARDWARE.

\*

TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 12 TOTAL

## REMOVE &amp; INSTALL TORQUE CONVERTER

COMPLAINT: REMOVE AND INSTALL TORQUE CONVERTER  
FROM ENGINE

\*

CAUSE: FUEL IN ENGINE UP TO CYLINDER HEAD AND OIL  
IN RESERVOIR TANK

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CORRECTION: INSPECTED EQUIPMENT AND STARTED TO REMOVE TOP HOSES ON TORQUE CONVERTER, HYDRAULIC PUMP, SERVICE HOSES, REMOVED BOTTOM HOSES ON ENGINE. REMOVED AIR CONDITIONER COMPRESSOR AND SET A SIDE. REMOVED BOLTS FROM ENGINE, LIFTED ENGINE COULDN'T REMOVE WITH TORQUE CONVERTER HAD TO SEPARATE TORQUE CONVERTER FROM ENGINE INSIDE OF EQUIPMENT. REMOVED PLUGS FROM STARTER AND DISCONNECTED PLUG FROM WIRING HARNESS. REMOVED POWER WIRE AND GROUND. REMOVED ENGINE FROM TORQUE CONVERTER DRAIN OIL AND FUEL INSIDE OF ENGINE. SET ENGINE TO SERVICE AND COOLING PACKAGE SYSTEM. INSTALLED ENGINE TO TORQUE CONVERTER WITH NEW ORING. INSTALL TORQUE CONVERTER INTO PLACE INSTALLED NEW BOLTS AND NUTS INTO TORQUE CONVERTER TIGHTEN BOLTS AND INSTALLED NEW ORING TO LOWER PUMP TO TRANSMISSION WITH NEW HOSE AND CLAMPS.

\*

TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 13 TOTAL

## RECONDITION ENGINE

MODEL# 3126B

SERIAL# BMA04141

STAMP# C15912

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DISASSEMBLED ENGINE FOR RECONDITION, CLEANED AND INSPECTED ALL PARTS FOR REUSE. REPLACE PARTS AS

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NEEDED. PERFORM APPLICABLE ENGINE UPDATES.  
 ASSEMBLE ENGINE TO CATERPILLAR SPECIFICATIONS  
 WITH NEW BEARINGS, SEALS, GASKETS, SENSORS,  
 HARNESS, AND HOSES. PRESSURE TEST ENGINE AFTER  
 ASSEMBLY. DYNO TEST AND PAINT ENGINE.  
 ALL CORE CREDITS HAVE BEEN APPLIED TO THIS QUOTE.  
 CORES WILL BE INSPECTED PER CAT CORE CRITERIA.

-  
 SPEC BLOCK AND CRANKSHAFT

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TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 14 TOTAL

HARD PARTS ENGINE  
 RECONDITION

TOTAL PARTS

TOTAL LABOR

TOTAL MISC CHGS

SEGMENT 15 TOTAL

REFILL MACHINE

CORRECTION: REFILL MACHINE AFTER REPAIRS, REFILL  
 COOLANT, ENGINE OIL AND HYDRAULIC OIL.

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TOTAL LABOR  
SEGMENT LU TOTAL

TEST/CHECK & ADJUST MACHINE  
TEST/CHECK & ADJUST MACHINE  
TEST AND CONFIRM REPAIRS

\*

PARTS INVOICE TOTAL  
LABOR INVOICE TOTAL  
MISC CHARGES INVOICE TOTAL

STATE/COUNTY TAX  
CITY/OTHER TAX

PAY THIS AMOUNT	
CREDIT AMOUNT	