Invoice

Date	Invoice #
10/16/2017	2206

112-450

Machine
140H APM3193

Hrs/Mlg
7560

P.O. No.	Terms
140H APM3193	Net 30

Description	Qty	Rate	Amount
12-450 140H APM3193 MACHINE CAME IN WITH TRANSMISSION PROBLEMS. MACHINE HAD NO LOW GEARS. CHECKED PRESSURES IN TRANSMISSION AND FOUND LOW PRESSURE IN CLUTCH PACK. CHANGED OUT SHIFT SOLENOID COULD NOT GET PRESSURES CORRECT. TRIED RECALABRATING CLUTCHES, COULD NOT GET TO CORRECT PRESSURE. DECIDED PROBLEMS WERE INTERNAL. DRAINED ALL COOLANT AND STARTED REMOVING TRANSMISSION FROM MACHINE. REMOVED ALL PANELS AND COMPONENTS AND REMOVED TRANSMISSION. Labor TOOK TRANSMISSION TO SHOP TORE APART TRANSMISSION AND INSPECTED ALL PARTS. FOUND CLUTCHES BURNED AND SEALS OUT. REBUILT TRANSMISSION WITH ALL NEW SEALS AND REPLACED ALL BEARINGS IN CLUTCH PACKS. CHECKED THICKNESS ON ALL CLUTCHES AND DECIDED TO JUST REPLACE ALL CLUTCHES IN TRANSMISSION TORE APART VALVE BODY AND INSPECTED. REPLACED ALL SHIFT SOLENOIDS. TOOK APART PUMP AND REBUILT UNIT ASSEMBLED TRANSMISSION AND TOOK TO HOLT FOR DYNO. Labor		0.00	0.00T

ENTERED

Payments/Credits
Balance Due

COPY

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Description	Amount
STARTED INSTALLING TRANSMISSION IN MACHINE. REPLACED ALL TRANSMISSION HOSES THAT WERE BAD AND OLD. CONNECTED ALL HOSES AND WIRING. DRAINED OUT DIFFERENTIAL OIL TO REMOVE CONTAMINATED OIL. CLEANED OUT TRANSMISSION OIL COOLER. INSTALLED ALL COVERS AND GUARDS BACK ON. CHANGED OUT ALL COOLANT HOSES AND REPLACED AIR TO AIR LINES. FILLED UP ALL FLUIDS AND TESTED MACHINE. Labor	
INSPECTED MACHINE AND FOUND ALL WEAR STRIPS IN CIRCLE WORE OUT. DROPPED SADDLES AND REPLACED SHIMS IN CIRCLE. ADJUSTED PROPERLY AND TESTED. FOUND A/C NOT BLOWING CORRECTLY SO REMOVED SEAT AND PULLED BLOWER MOTOR. CLEANED OUT A/C COIL. INSTALLED NEW BLOWER MOTOR AND NEW WHEEL. PUT CAB BACK TOGETHER. RECHARGED A/C SYSTEM. Labor	

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Description	Qty	Rate	Amount
AFTER COMPLETING ALL REPAIRS RAN MACHINE AROUND YARD TO TEST. NOTICED HESITATION IN SHIFTING PATTERN. CALIBRATED CLUTCHES AGAIN BUT NOTHING CHANGED. TRACED ELECTRICAL AND FOUND ECM WAS NOT PUTTING OUT CORRECT VOLTAGE TO SHIFT SOLENOIDS WHICH IS WHAT CAUSED ORIGINAL FAILURE. CHECKED FLASH FILE ON ECM AND IT WAS CURRENT. PULLED ECM AND TOOK TO HOLT TO HAVE CHECKED. ECM NEEDED REPLACED SO PURCHASED REMAN ECM HAD ECM FLASHED AND INSTALLED ON MACHINE. RAN CALIBRATIONS ON ALL CLUTCH PACKS. TEST RAN MACHINE AND GOT IT HOT AGAIN. IT WAS SHIFTING CORRECTLY WASHED MACHINE OFF GOOD AND INSPECTED FOR ANY OTHER PROBLEMS. REPAIRED LIGHTS AND TOPPED ALL FLUIDS Labor 30W transmission and final oil Bulk 10w Hyd oil Corsicana City Sales Tax		0.00	0.00T

Balance Due $12,823.30