

2014 Doosan DX225LC-3 DM7385

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Invoice To:

Salesperson
289 / 289

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
0009881				
	DX225LC-3-20 EXCAV	1756	CEBAO-001253	
	DX225LC-3-20			

SEGMENT# 1 C 1336 NA 02/02/18 02/02/18

MACHINE IN POND

COMPLAINT:

MACHINE IN WATER

CAUSE:

BANK GAVE OUT WHILE CLEANING OUT POND CAUSING MACHINE TO BECOME SUBMERGED. ENGINE AND MOST OF CAB WERE UNDER WATER.

CORRECTION:

WENT TO JOBSITE AND FOUND MACHINE HAD BEEN IN A POND ABOVE THE LEVEL OF THE ENGINE. REMOVED AIR FILTER AND FOUND ICE. REMOVED INTAKE PLUMBING FROM ENGINE AND FOUND ICE. BEGAN CHISELING FROZEN MUD FROM FRAME TO GAIN ACCESS TO BATTERIES WHILE ANOTHER TECH REMOVED ALL INTAKE PLUMBING FROM ENGINE. REMOVED VALVE COVER AND ROCKER ARM ASSEMBLY. REMOVED INJECTORS AND TURNED ENGINE OVER BY HAND TO REMOVE WATER. FOUND WATER IN CYLINDERS 5 AND 6. DRAINED ENGINE OIL. HAD TO REMOVED QUICK DRAIN FROM OIL PAN AND CHISEL ICE TO ALLOW OIL TO DRAIN. INSTALLED NEW BATTERIES. BYPASSED MACHINE WIRING AND CRANKED ENGINE OVER WITH STARTER. ENGINE CRANKED OVER AND SPRAYED MORE WATER OUT OF CYLINDERS. REINSTALLED INJECTORS. REINSTALLED ROCKER ARMS AND VALVE COVER. HAD TO MELT WATER OUT OF TURBO CHARGER. USED HEATER TO MELT ICE OUT OF INTAKE PLUMBING. PUT ENGINE ECU IN CAB OF SERVICE TRUCK WITH HEATER CRANKED UP TO DRY OUT. REINSTALLED INTAKE PLUMBING. WENT BACK OUT ON A SATURDAY DUE TO TEMPS ABOVE FREEZING. VERIFIED POWER TO ECU. CRANKED ENGINE OVER WITH REMOTE START SWITCH. ENGINE STARTED AND RAN BUT RAN POORLY. LEFT JOYSTICK WAS FULL OF WATER AND HAD TO BE THAWED BEFORE IT WOULD MOVE. HAD TO WORK TRACKS TO CLEAN OFF FROZEN MUD.

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SERVICE INVOICE

STK#/FLEET# 0001-455 (800) 250-049 225LC-3-20 HRS. PIN/EIN 1756 CEBAO-001253 WARRANTY DATE 02/22/18 HRS 02/22/18
 0009881 DX225LC-3-20 EXCAV 1756 CEBAO-001253
 DX225LC-3-20

LOADED MACHINE ON TRAILER AND TOOK IT BACK TO SHOP. ENGINE MOST LIKELY DAMAGED WHEN IT SHUT OFF DUE TO INGESTING LARGE AMOUNTS OF WATER. WIRING HARNESS ALREADY STARTING TO CORRODE. DISPLAY PANEL IS INOP AND ICICLE IS HANGING FROM CORNER OF DISPLAY. HVAC ASSEMBLY IS FULL OF MUD. MOST ELECTRICAL DEVICES ARE INOP.

ADDITIONAL DESCRIPTION:

-MACHINE IN POND IN GODFREY ILLINOIS
 2 TECHS TO REMOVE WATER AND GET RUNNING TO SHIP TO VP
 FUEL FUEL CHARGE 20
 J2110 JERSEY Glove 1
 400403-00126 FILTER;FUEL 2
 400408-00049 FILTER,SUCTION 1
 400504-00045 ELEMENT,FUEL CA 1
 400508-00036 CARTRIDGE 1
 940301-12338 DS 15W40 2.5 GA 3
 940301-13295 DN 4D BATTERY 2

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SEGMENT TOTAL==>

SEGMENT# 2 C 1336 NA 02/22/18 02/22/18

REPLACE ENGINE

COMPLAINT:

REPLACED DAMAGED ENGINE

CAUSE:

WATER IN ENGINE

CORRECTION:

DRAINED ENGINE OIL AND COOLANT. DISCONNECTED ELECTRICAL CONNECTIONS. REMOVED ENGINE COVER. REMOVED HYDRAULIC PUMP.

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SERVICE INVOICE

STK#/FLEET# 0009881 (000) EXCAVATOR 1756 CEBAO-001253
 DX225LC-3-20 EXCAV 1756 CEBAO-001253
 DX225LC-3-20

UNBOLTED AND REMOVED ENGINE. TRANSFERRED ACCESSORIES AND
 BRACKETS AS NEEDED. INSTALLED NEW STARTER, ALTERNATOR AND
 A/C COMPRESSOR. INSTALLED NEW HARNESSES ON NEW ENGINE.
 INSTALLED NEW ENGINE. FILLED WITH OIL AND COOLANT.
 REINSTALLED HYDRAULIC PUMP.

ADDITIONAL DESCRIPTION:

REPLACE ENGINE THAT WAS DAMAGED WHEN MACHINE SLID INTO POND

DL06-LDE00-CE	ENGINE ASSY	1 N
161-00550	MOUNT, RUBBER	4 N
180204-00107	RUBBER, ENGINE M	4 N
240103-00207A	MUFFLER, DPF	1 N
300516-00039	STARTER ASSY	1 N
300901-00033	ALTERNATOR	1
301202-00067	RELAY	1
301308-00036	SENSOR	1 N
310207-01566E	HARNESS ASSY, EN	1 N
310207-01651C	HARNESS, ENGINE	1 N
400102-00381	COMPRESSOR	1 N
420107-00169	HOSE, OIL; EUTEP	1 N
420107-00327	HOSE, OIL COOLER	1 N
970301-00547	ECU MAP DATA	1 N

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SEGMENT TOTAL==>

SEGMENT# 3 C 1369 NA 02/22/18 02/22/18

FRAME ELECTRICAL REPAIR

COMPLAINT:

MAIN FRAME HARNESS CORRODED

CAUSE:

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SERVICE INVOICE

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0009881 DX225LC-3-20 EXCAV 1756 CEBAO-001253
DX225LC-3-20

WATER DAMAGE

CORRECTION:

DISCONNECTED BATTERIES. DRAINED AND REMOVED HYDRAULIC TANK AND FUEL TANK. REMOVED MAIN FRAME HARNESS FROM MACHINE. REMOVED AND REPLACED ALL SOLENOIDS AND ELECTRICAL COMPONENTS ON FRAME. INSTALLED NEW MAIN FRAME HARNESS. INSTALLED NEW BATTERY CABLES. REINSTALLED AND REFILLED FUEL AND HYDRAULIC TANKS.

ADDITIONAL DESCRIPTION:

REMOVE AND REPLACE ALL FRAME MOUNTED ELECTRICAL COMPONENTS WITH WATER DAMAGE. CLEAN MUD AND DEBRIS FROM MAIN FRAME.

K1055454	LAMP, HEAD	1
K1057605	SWITCH ASSY	1 N
K9009874	MOTOR; RESERVE T	1 N
2550-1014D1	TERMINAL, BATT.	2 N
2550-1014D2	TERMINAL; BATT-	2 N
2553-1275D122	CABLE, BATTERY E	1 N
2553-1275D54	CABLE, BATTERY	1 N
2553-1275D81	CABLE, BATTERY	1 N
2553-1275D82	CABLE, BATTERY	1 N
300726-00002	HORN; HIGH	1
300726-00003	HORN; LOW	1
301202-00153	RELAY	1
310203-03207	CABLE, BATTERY	1 N
310207-01730B	HARNESS, MAIN	1 N

PARTS
LABOR

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SEGMENT TOTAL==>

SEGMENT# 4 C 1336 NA

02/22/18 02/22/18

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• SEE REVERSE SIDE FOR TERMS AND CONDITIONS •

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TK# / FLEET# 0009881
 DX225LC-3-20 EXCAV 1756 CEBAO-001253
 DX225LC-3-20

CAB ELECTRICAL REPAIR

COMPLAINT:

ELECTRICAL COMPONENTS IN CAB DAMAGED

CAUSE:

WATER/MUD DAMAGE

CORRECTION:

REMOVED SEAT AND SUSPENSION ASSEMBLY FROM CAB. REMOVED ALL COVERS FROM INTERIOR OF CAB. REMOVED ALL ELECTRICAL COMPONENTS. DRAINED A/C SYSTEM. REMOVED HVAC ASSEMBLY. INSTALLED NEW HVAC ASSEMBLY WITH ALL SENSORS AND ACTUATORS. REMOVED AND REPLACED CAB HARNESS. INSTALLED ALL NEW SWITCHES AND CONTROLLERS IN CAB. INSTALLED NEW SEAT ASSEMBLY. REINSTALLED ALL COVERS.

ADDITIONAL DESCRIPTION:

REMOVE AND REPLACE ALL ELECTRICAL COMPONENTS IN CAB THAT WERE DAMAGED BY WATER. CLEAN ALL MUD AND DEBRIS FROM CAB.

FRTO	FREIGHT	2
K1001702A	TOGGLE SWITCH	1 N
K1053326	RELAY	1 N
K1053423	SOCKET; 12V POWE	1 N
K1056625	ACTUATOR; HEADLI	1 N
K1056640	ACTUATOR; DPF	1 N
K1057054	GAUGE, FUEL LEVE	1 N
K1057340	SENSOR, PRESSURE	2 N
190112-00009B	SUSPENSION; SEAT	1
190201-00102	JOY STICK	1 N
190201-00103	JOY STICK	1 N
220110-00029E	SEAT, OPERATOR	1 N
2516-1116	BUZZER, PILOT	1 N
2543-9015	CONTROLLER, STAR	1 N

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 0009881 DX225LC-3-20 EXCAV 1756 CEBAO-001253
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2547-9045	SENSOR, PRESSUR	2 N
3GM820	SCREW	2
300426-00089B	PANEL ASSY, GAUG	1 N
300611-00147B	CONTROLLER, EPOS	1 N
300611-00271A	CONTROLLER, WIPE	1 N
300612-00001B	CONVERTER, DC	1 N
300619-01179A	ELECTRIC UNIT; J	1 N
300619-04004	ELECTRIC ASSY; T	1 N
300654-00069	STEREO, CAR; RADI	1 N
300661-00004	DIAL, ENGINE	1 N
300701-00020	ACTUATOR, SWITCH	1 N
300708-00670	BREAKER, CIRCUIT	1 N
300715-00038	COIL	2 N
300720-00003	DRYER	1
300730-00006	LIGHTER, CIGAR	1 N
301102-00021	CAMERA	1 N
301202-00042	RELAY	1 N
301317-00027	SENSOR, TEMPERAT	3 N
301401-00008	ACTUATOR, SWITCH	1 N
301417-00002B	SWITCH, SAFETY	1 N
301419-00106	STARTER SWITCH	1
301423-00002	SWITCH, ROCKER	1 N
301423-00040	SWITCH, ROCKER	1 N
310207-00539	HARNESS, WORKING	1 N
310207-00708	HARNESS, JOINT; C	1 N
310207-00972K	HARNESS, CABIN	1 N
310207-01300	HARNESS, JOINT	2 N
310207-01346B	HARNESS, JOINT; R	1 N
410113-00072	SWITCH, JOG SHUT	1 N
410116-00646	VALVE, EPPR	1 N

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WARRANTY DATE HRS

410135-00237A	VALVE, SOLENOID;	1 N	387.35
410207-00977	SPOOL SOLENOID	1 N	73.20
440205-00033	CONDITIONER, AIR	1 N	508.12
471-00105A	FILTER, FUEL STR	1	7.85
530-00434B	HARNESS, JOINT;H	1 N	7.92
543-00095	WIPER PANEL ASS	1 N	50.72
543-00096	PANEL ASSY;RADI	1 N	33.31
543-00107	CONTROL PANELAI	1 N	367.17
545-00011	RESISTOR	1 N	21.43
547-00023	SENSOR	1 N	12.24
549-00090A	SWITCH, TOGGLE	1 N	23.66
549-00103	SWITCH, ROCKER	2 N	10.58
800224-00011	METER, HOUR	1 N	29.96

PARTS
LABOR

11100000 47200501

SEGMENT TOTAL==>

SEGMENT# 5 C 1369 NA 02/22/18 02/22/18

SERVICE
COMPLAINT:

SERVICE
CAUSE:
POSSIBLE WATER CONTAMINATION
CORRECTION:

FLUIDS TO FILL NEW ENGINE AND SERVICE ALL FILTERS. DRAIN
AND REFILL TRAVEL DEVICES AND SWING DEVICE TO CHECK FOR ANY
WATER. OIL TO DRAIN AND REFILL HYDRAULIC TANK.

ADDITIONAL DESCRIPTION:

DRAIN AND FLUSH HYD SYSTEM. DRAIN AND FLUSH FINAL DRIVES.
REPAIR DAMAGED LUBRICATION PIPING. ALSO INCLUDES FLUIDS AND

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STK#/FLEET# 0009881 HRS 1756 PIN/EIN CEBAO-001253 WARRANTY DATE 04/19/18 HRS 1756
 DX225LC-3-20 EXCAV 1756 CEBAO-001253
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FILTERS FOR NEW ENGINE.

K1006530	FUEL FILTER	1
K1007665B	PIPE	1 N
2181-1925	ELBOW	1 N
2181-2527	TEE	1 N
2474-9041S	FILTER, PILOT	1
400402-00005A	FILTER, AIRCON	1
400403-00126	FILTER, FUEL	1
400504-00225	ELEMENT, FILTER;	1
400504-00241	PILOT FILTER	1
400504-00254	ELEMENT, AIR BRE	1
400508-00036	CARTRIDGE	1
474-00039	ELEMENT, INNER	1
474-00040	OUTER AIR	1
940301-12338	DS 15W40 2.5 GA	3
940301-12347	DOOSAN 80W90 1G	4
940301-12929	DOOSAN HYD 5GAL	11
940301-13458	PREMIX EG 1 GAL	8

PARTS
LABOR

11100000

47200501

SEGMENT TOTAL==>

***** WORK ORDER TOTALS *****

PARTS
LABOR

PICK UP

SUB TOTAL==>

Valley Park 8.613%

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SERVICE INVOICE

STK#/FLEET# 0009881 HRS 289 PIN/EIN 1756 WARRANTY, DATE CEBAO-001253
DX225LC-3-20 EXCAV 1756 CEBAO-001253
289 DX225LC-3-20 ON ACCOUNT 96431:37

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