

ORDER NUMBER 21093333	ORDER DATE 06/06/17	JOB NUMBER	CUSTOMER P/O NUMBER	FREIGHT TERMS Allow
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PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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Model : T190-N

BOBCAT COMPACT TRACK LOADER

Ein: 0716114 Serial#: 531614205 Meter: 2748

-----> Description Of Repair Job A <-----

REPLACE UPPER & LOWER BOBTACH PINS & BUSHINGS

-----> Solution Of Repair Job A <-----

REPLACED UPPER AND LOWER BOBTACH PINS AND BUSHINGS

7101078	1	1	0			
PIN PIVOT TAPERED						
47C1088	1	1	0			
BOLT W/THREAD LOCK						
27E10	1	1	0			
WASHER						
6730997	1	1	0			
BUSHING 1.5"						
17C648	2	2	0			
BOLT-5						
3/8X3 GR8 USS						
85D6	2	2	0			
NUT, LOCK 3/8"-5						
6577954	2	2	0			
PIN						
6805453	2	2	0			
WEAR BUSHING						
225855	4	4	0			
SEAL-10						

Continued

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LABOR

SVC-EC

Service - Environmental Charge

1 1 0

SVC-ES

Service - Expendable Supplies

1 1 0

-----> Description Of Repair Job B <-----

CUSTOMER STATES MACHINE OVER HEATS WHEN USING PALLET FORKS.

-----> Solution Of Repair Job B <-----

PRESSURE TESTED COOLANT SYSTEM. FOUND EXPANSION TANK WITH A HOLE IN IT. ANTIFREEZE AND AIR FILTERS WERE VERY DIRTY. CHANGED OUT. RAN MACHINE AND GOT TEMP TO 190 AND THEN IN BACKED DOWN TO 185. NO FURTHER ISSUES.

6732375

TANK WATER COOLANT

1 1 0

6733429

CAP

1 1 0

6983128

ANTIFREEZE, PG 53/47 PREMIX 1G
PROPYLENE GLYCOL

3 3 0

6598362

AIR FILTER INNER

1 1 0

6598492

AIR FILTER OUTER

1 1 0

LABOR

SVC-EC

Service - Environmental Charge

1 1 0

Continued

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SVC-ES

Service - Expendable Supplies

1 1 0

-----> Description Of Repair Job C <-----

LIFT OR TILT BLEEDS OFF CHECK RODS FOR BENT CONDITION OR
POSSIBLE LOOSE PISTONS. IS WORSE WHEN USING PALLET FORKS.

-----> Solution Of Repair Job C <-----

DISASSEMBLED R/H TILT CYLINDER. FOUND ROD SLIGHTLY BENT.
TWEAKED TO STRAIGHT. RESEALED CYLINDER. TESTED WITH LOAD ON
BUCKET FOR AN HOUR AND TILT DID NOT BLEED OFF.

6806330

1 1 0

SEAL KIT

LABOR

SVC-EC

1 1 0

Service - Environmental Charge

SVC-ES

1 1 0

Service - Expendable Supplies

-----> Description Of Repair Job D <-----

INSPECT FOR OIL LEAK NEAR TURBO

-----> Solution Of Repair Job D <-----

REPLACED COPPER WASHER. NO FURTHER LEAKS.

7000642

1 1 0

GASKET

Continued

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LABOR

SVC-EC

Service - Environmental Charge

1 1 0

SVC-ES

Service - Expendable Supplies

1 1 0

-----> Description Of Repair Job E <-----

CHECK FOR NEEDED SERVICE 250 , 500, OR 1K CALL CUST FIRST

-----> Solution Of Repair Job E <-----

CHANGED OIL & FUEL FILTER. AIR FILTER AND COOLANT WAS
CHANGED ON JOB B. HYD FLUID LOOKS GOOD.

6675517

OIL FILTER-12

1 1 0

6667352

FILTER FUEL-12

1 1 0

SVC-15W40

Service - 15W40 Oil QUART

8 8 0

LABOR

SVC-EC

Service - Environmental Charge

1 1 0

SVC-ES

Service - Expendable Supplies

1 1 0

-----> Description Of Repair Job F <-----

INSPECT MACHINE FOR ADDITIONAL REPAIRS. ADVISE CUSTOMER &
QUOTE IF REQUESTED.

-----> Solution Of Repair Job F <-----

PERFORM KCB BOBCHECK

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LABOR

-----> Description Of Repair Job G <-----

REPLACE ALT & DRIVE BELT

-----> Solution Of Repair Job G <-----

REPLACED ALT BELT & DRIVE BELT

7100104	1	1	0
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ALTERNATOR BELT

6736775	1	1	0
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DRIVE BELT

LABOR

SVC-EC	1	1	0
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Service - Environmental Charge

SVC-ES	1	1	0
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Service - Expendable Supplies

-----> Description Of Repair Job H <-----

REPLACE LEAKING HOSE @ R/H BOOM CYL

-----> Solution Of Repair Job H <-----

REPLACED LEAKING HOSE

6683797	2	2	0
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HOSE, 6M4K 330 REEL

6683707	2	2	0
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FITTING, 6G-6FJX

Continued

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PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
LABOR						
SVC-EC	1	1	0			
Service - Environmental Charge						
SVC-ES	1	1	0			
Service - Expendable Supplies						
Check Tendered # 7859						1703.33

							PAID
MERCHANDISE TOTAL	FREIGHT & MISC	TAX	TOTAL CHARGES	DEPOSIT BALANCE	DEPOSIT APPLIED	DEPOSIT AMOUNT	INVOICE TOTAL
1,653.12	0.00	50.21	1,703.33	0.00	0.00	0.00	1,703.33

ORDER NUMBER 21096659	ORDER DATE 08/28/17	JOB NUMBER	CUSTOMER P/O NUMBER	FREIGHT TERMS Allow
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PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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Model : T190-N

BOBCAT COMPACT TRACK LOADER

Ein: 0716114 Serial#: 531614205 Meter: 2825

-----> Description Of Repair Job A <-----

RUNS TO MIN TILL WARM THEN SMOKES AND LOOSES POWER ALOT OF SMOKE COMING FROM REAR OF ENGINE NEAR TURBO. CHECK TURBO FOR BLOWN SEAL. CUSTOMER THOUGHT IT WAS A PICKUP TUBE AND FUEL LIFT PUMP BUT STILL LOOSING POWER. **** MACHINE WILL RUN FINE FOR ABOUT 10 MINUTES TILL WARM THEN CHOKES OUT****

-----> Solution Of Repair Job A <-----

Has power loss smoking out of engine compartment. found exhaust manifold leak and one of the injector lines was leaking. Ran compression test on all cylinders and found all four to be between 370-380 PSI. According to the manual original spec is 425 PSI but lowest allowable limit is 341 PSI With no more than a 10% variance in the cylinders. Compression test was done with a hot engine. Removed the muffler, Flex pipe and bolts, then the turbo intake tubes. Then removed the exhaust elbow from the turbo. 2 of the bolts broke off in the turbo. Removed turbo nuts, oil lines and turbo from machine. Had to take off the E clip of the waste gate lever to get the oil line off and the turbo free. Removed the manifold nuts and removed the manifold. Cleaned and inspected all parts. Drilled and tapped out Turbo bolts. Reinstalled Manifold, turbo, Elbow, flex pipe and oil lines with new gaskets and some new hardware. Tested machine and seemed to make a difference for about 30 mins then it started smoking again. Checked fuel system couldn't narrow it down but after replacing all

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ORDER NUMBER	ORDER DATE	JOB NUMBER	CUSTOMER P/O NUMBER	FREIGHT TERMS
21096659	08/28/17			ALL

PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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hoses, filter, pickup/return tubes, and lift pump. Each seemed to make a difference and was the simpler cheaper fix but did not fix problem completely. Called customer and advised, possible injection pump. Followed procedure in service manual to replace pump. Removed Fuel lines, Intake manifold, shutoff solenoid, and High Idling body. Removed bolts and nuts and pulled out pump. Installed pump and torqued to specification. Reinstalled fuel lines, intake manifold, shutoff solenoid, and high idling body and torqued to specifications. Tested. Ran machine and worked for 2 hours problem was fixed and no more issues were found. Washed and Greased.

6657734	1	1	0			
HAND PRIMER, SHORT						
6598102	1	1	0			
VALVE, JET START						
5HM14	1	1	0			
CLAMP						
6655216	1	1	0			
FUEL PUMP						
6686037	1	1	0			
GASKET 3974502						
1CM620	1	1	0			
BOLT						
WAREHOUSE						
4E4	2	2	0			
WASHER						

Continued

ORDER NUMBER	ORDER DATE	JOB NUMBER	CUSTOMER P/O NUMBER	FREIGHT TERMS
21096659	08/28/17			A 11

	OPEN	SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
6684848	1	1	0			
PIPE						
PTS-FREIGHT	1	1	0			
Freight						
6657416	4	4	0			
BOLT						
6974656	2	2	0			
ASSY PIPE,OVER FLOW						
6688382	1	1	0			
EXHAUST MANIFOLD GASKET						
7000642	2	2	0			
GASKET						
6680570	1	1	0			
GASKET						
6727753	1	1	0			
GASKET						
6675636	1	1	0			
GASKET						
6652792	4	4	0			
NUT						
METRIC 8 1.25 PITCH						
6675637	1	1	0			
GASKET						
6667352	1	1	0			
FILTER FUEL-12						
6577822	4	4	0			
HOSE BULK, 5/16" I.D.-FT						

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PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
6569752 HOSE BULK/FT, .25" I.D. FUEL HOSE	2	2	0			
6578169 HOSE, 3/16" I.D.-BULK/FT	4	4	0			
6650239 SCREEN, FUEL PICKUP	1	1	0			
6661213 COMPRESSION RING	3	3	0			
6553411 BUSHING-5	1	1	0			
6577821 HOSE BULK, 1/4" I.D.-FT	4	4	0			
6684828REM REMAN, FUEL INJECTION PUMP KUB CORE REQUIRED	1	1	0			
6684828COR PUMP, FUEL INJ. KUBOTA V2003 N PUMP KUBOTA V2003	1	1	0			
6684828COR PUMP, FUEL INJ. KUBOTA V2003 N PUMP KUBOTA V2003	-1	-1	0			
PTS-FREIGHT Freight	1	1	0			
6684877 GASKET	1	1	0			
6685465 O-RING	1	1	0			

Continued

ORDER NUMBER 21096659	ORDER DATE 08/28/17	JOB NUMBER	CUSTOMER P/O NUMBER	FREIGHT TERMS All In
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PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
6666783	1	1	0			
PUMP GASKET						
WAS 3974601						
LABOR						
SVC-EC	1	1	0			
Service - Environmental Charge						
SVC-ES	1	1	0			
Service - Expendable Supplies						

-----> Description Of Repair Job B <-----

INSPECT MACHINE FOR ADDITIONAL REPAIRS. ADVISE CUSTOMER &
QUOTE IF REQUESTED.

-----> Solution Of Repair Job B <-----

PERFORM KCB BOBCHECK

SVC-EC	1	1	0			
Service - Environmental Charge						
Check Tendered # 7831						2744.71

PAID

MERCHANDISE TOTAL	FREIGHT & MISC	TAX	TOTAL CHARGES	DEPOSIT BALANCE	DEPOSIT APPLIED	DEPOSIT AMOUNT	INVOICE TOTAL
2,639.35	0.00	105.36	2,744.71	0.00	0.00	0.00	2,744.71