

# \*\* Customer Review Report\*\*

## FIRE APPARATUS SOLUTIONS

1762 SOUTH SYCAMORE AVENUE  
 RIALTO, CA 92376

Phone: 909-879-7354  
 Fax:

Invoice Number:  
 Invoice Date:  
 Invoice Time:  
 Repair Order: 13139  
 Customer: MORONGO VA  
 Warehouse: TPS-S.Ana

**Bill To:** MORONGO VALLEY COMMUNITY SVC DISTRICT  
 11207 OCOTILLO STREET  
 PO BOX 46  
 MOROGO VALLEY, CA 92256

**Ship To:** MORONGO VALLEY COMMUNITY SVC DISTRICT  
 11207 OCOTILLO STREET  
 PO BOX 46  
 MOROGO VALLEY, CA 92256

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Customer P/O: \_\_\_\_\_

<b>Unit Number:</b> 82497	<b>Year:</b> 2017	
<b>Meter Reading:</b> 32,955 Miles	<b>Manufacturer:</b> SPARTAN	
	<b>Model:</b> TYPE 1	
	<b>VIN:</b> 4S7CT2D91HC082497	

Comments: ME461

**Job: 1      0      CHECK REAR BRAKES - DRUMS HAVE HI      Department: Service**

**Complaint:** CHECK REAR BRAKES AND FOUND WORN LINERS IN DRUMS AND LOW SURFACES ON BRAKE SHOES. PULLED OFF WHEELS. REMOVED BRAKES PUSH IN ABS SENSORS ON TONE RINGS , INSTALL NEW BRAKES AND ADDED NEW SPRING HARDWARE ON SHOES. INSTALL NEW DRUMS AND INSTALLED WHELBS BACK ON UNIT M, TORQD HARDWARE INSTALL CHROME CAPS AND HUB COVER ADJUSTD BRAKES

Supplier/Emp	Part/Labor	Description/Reference	Unit of Measure	Quantity	Price	Extended Price
FS	BRAKE KLEEN	BRAKE KLEEN 05059/ST	EA	2.00	\$4.73	\$9.46
ZZZ	MISC	KITRSM4707DX BRAKE SHOE KIT/FRANKL	EA	2.00	\$113.33	\$226.66
ZZZ	MISC	70003123399002 BRAKE DRUM/FRANKLIN	EA	2.00	\$399.01	\$798.02
		Labor Summary		5.50	\$108.00	\$594.00

Name \_\_\_\_\_  
 JOAQUIN AGUILAR

<b>Job 1 Subtotals</b>	
Parts:	\$1,034.14
Core Charges:	\$0.00
Core Returns:	\$0.00
Labor:	\$594.00
Miscellaneous:	\$0.00
Shop Supplies:	\$32.67
EPA Charge:	\$0.00
<b>Job 1 Subtotals</b>	<b>\$1,660.81</b>

**Job: 2      0      CHECK ENGINE LIGHT COMING ON      Department: Service**

**Complaint:** CONNECTED TRUCK TO COMPUTER AND FOUND 3 ACTIVE FAULTS RELATED TO VGT ISSUES. REMOVED AND CLEANED INTAKE PRESSURE SENSOR. CLEARED OUT EXHAUST PRESSOR SENSOR TUBE FOR BETTER READ OUT. ENDED UP REPLACING INTAKE PSI SENSOR. CHECKED CRANK CASE FILTER FOR RESTRICTIONS. INSPECTED HARNESS FOR FOR ANY CHAFFING. DETERMINED BASED ON THE 3 LEVELS OF FAULTS, AND FOLLOWING TROUBLESHOOT TREE COULD BE HARNESS CHAFFED AND DAMGED OR CONNECTOR. CUT ZIP TIES AND INSPECTED TO FIND NO ISSUES.

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DETERMINED TURBO STICKING AND OR DUE TO LOSS OF COMMUNICATION BAD CHIP  
 INSIDE TURBO.

Supplier/Emp	Part/Labor	Description/Reference	Unit of Measure	Quantity	Price	Extended Price
ZZZ	MISC	904-7130 PRESSURE SENSOR/OREILLY	EA	1.00	\$79.92	\$79.92
		Labor Summary		11.85	\$108.00	\$1,279.80

Name  
 JOAQUIN AGUILAR

<b>Job 2 Subtotals</b>	
Parts:	\$79.92
Core Charges:	\$0.00
Core Returns:	\$0.00
Labor:	\$1,279.80
Miscellaneous:	\$0.00
Shop Supplies:	\$83.19
EPA Charge:	\$0.00
<b>Job 2 Subtotals</b>	<b>\$1,442.91</b>

**Job: 3                    0                    CHECK VEHICLE FOR SWAYING MOTION    Department:    Service**

Complaint: RAISED FRONT END PUT TRUCK ON STANDS AND BEGAN INSPECTING FOR LOOSE STEERING COMPONENTS.  
 RAISED VEHICLES FRONT WHEELS OFF GROUND. CHECKED FOR LOOSE KING PINS, ALL OK. WHEEL BEARINGS OK. CHECKED STEERING COLUMN U JOINTS NEEDS TO BE GREASED. GREASED JOINTS AND CHECKED AGAIN FOR SLOP, STEERING BOX UNDER FLOOR BOARD HAD ONE LOOSE YOKE THAT WAS LOOSE ON SPLINE.  
 TORQUED DOWN YOKE TO STEERING SHAFT. ELIMINATED PLAY. CHECKED FOR LOOSE STEERING, PITMAN ARM IS TIGHT, DRAG-LINK OK. TIE RODS. ROAD TESTED TO FIND NO OTHER ISSUES. DETERMINED STEER SHAFT PINCH BOLT COULD HAVE BEEN RELATED.

Supplier/Emp	Part/Labor	Description/Reference	Unit of Measure	Quantity	Price	Extended Price
		Labor Summary		6.01	\$108.00	\$649.08

Name  
 JOAQUIN AGUILAR

<b>Job 3 Subtotals</b>	
Parts:	\$0.00
Core Charges:	\$0.00
Core Returns:	\$0.00
Labor:	\$649.08
Miscellaneous:	\$0.00
Shop Supplies:	\$42.19
EPA Charge:	\$0.00
<b>Job 3 Subtotals</b>	<b>\$691.27</b>

**Job: 4                    0                    REPLACE TURBO-TURBO BINDING, SOO`    Department:    Service**

Complaint: DIAGNOSED TURBO TO BE LOOSING COMMUNICATION POTENTIALLY. BASE DON COM LOSS CODES.  
 ALSO UNIT HAD STICKING VANES ISSUE. RECOMMEND REPLACING TURBO WITH FACTORY UNIT.

\*\*NOTE, ADVISED CUSTOMER. HAD PREVIOUSLY FOUND SATURATED CRANKCASE BREATHER FILTER.  
 ALSO NOTED OIL CONSUMPTION, WAS ADVISED BY CUSTOMER UNIT HAD EXTENDED OIL DRAIN INTERVALS IN EXCESS. THIS TOO CAN CAUSE CYLINDER WEAR/SOOT

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LEVELS IN OIL TO CAUSE STICKING TURBO.

IN THE EVENT OF EXCESS BLOW BY, TURBO REPLACEMENT WILL LIKELY BY MORE FREQUENT UNTILL UNDERLINING ISSUE RESOLVED (ENGINE IN FRAME) . INFRAME HAS MINIMAL COSTS TO BE ESTIMATED AT 16,500-19,500.

CURRENT ESTIMATE ONLY FOR TURBO REPLACEMENT, ROAD TEST AND CODE CLEARING.

Supplier/Emp	Part/Labor	Description/Reference	Unit of Measure	Quantity	Price	Extended Price
999	FREIGHT	FREIGHT/ST.	EA	1.00	\$36.10	\$36.10
ZZZ	MISC	MOUNT KIT, TURBO/ST	EA	1.00	\$192.50	\$192.50
ZZZ	MISC	TURBO, CUMMINS GENUINE/CUMM	EA	1.00	\$4,794.90	\$4,794.90

<b>Job 4 Subtotals</b>	
Parts:	\$5,023.50
Core Charges:	\$0.00
Core Returns:	\$0.00
Labor:	\$880.20
Miscellaneous:	\$0.00
Shop Supplies:	\$57.21
EPA Charge:	\$0.00
<b>Job 4 Subtotals</b>	<b>\$5,960.91</b>

**Job: 5                    0                    PERFROM MINIMAL INFRAME FOR BLOW Department: Service**

Complaint: UNIT HAS BLOW-BY FROM PISTON RINGS, SCORED LINERS OR VALVE GUIDES

ESTIMATE TO REPLACE LINERS, SEND OUT HEAD FOR TESTING, REPLACE PISTONS, RINGS, BEARINGS, OIL, ROD BEARINGS, THRUST BEARINGS, GASKET AND SEAL KITS FOR MID SECTION/INFRAME.

Supplier/Emp	Part/Labor	Description/Reference	Unit of Measure	Quantity	Price	Extended Price
999	FREIGHT	FREIGHT	EA	1.00	\$125.00	\$125.00
ZZZ	MISC	GASKET VALVE/ST	EA	1.00	\$54.40	\$54.40
ZZZ	MISC	OIL SUPPLY LINE/ST	EA	1.00	\$55.85	\$55.85
ZZZ	MISC	T STAT/ST	EA	1.00	\$64.81	\$64.81
ZZZ	MISC	PAN GAKSET/ST	EA	1.00	\$76.14	\$76.14
ZZZ	MISC	COOLANT LINE, TRB/CUMM	EA	1.00	\$76.71	\$76.71
ZZZ	MISC	KIT, MAIN BRG/ST	EA	1.00	\$295.66	\$295.66
ZZZ	MISC	SEALANT, PAC, LF, STUDS, GAKSET, NUT/	EA	1.00	\$337.50	\$337.50
ZZZ	MISC	MISC/ST	EA	1.00	\$350.00	\$350.00
ZZZ	MISC	KIT, UPPER KIT/ST	EA	1.00	\$402.84	\$402.84
ZZZ	MISC	SLR INSTLLR/ST	EA	1.00	\$410.56	\$410.56
ZZZ	MISC	OIL, FILTERS, AIR FILTER/ST	EA	1.00	\$468.00	\$468.00
ZZZ	MISC	CYL HEAD, ISL9/ST	EA	1.00	\$2,897.50	\$2,897.50
ZZZ	MISC	THRUST BRG/ST	EA	2.00	\$87.75	\$175.50
ZZZ	MISC	HANRESS, WIRING INJ/ST	EA	3.00	\$95.65	\$286.95
ZZZ	MISC	EXH MAN GASKET/ST	EA	6.00	\$16.48	\$98.88
ZZZ	MISC	CONN ROD, BRG/CUMM	EA	6.00	\$28.38	\$170.28
ZZZ	MISC	BRG CONN ROD/ST	EA	6.00	\$28.82	\$172.92
ZZZ	MISC	LINER KITS/CUMM	EA	6.00	\$213.34	\$1,280.04
ZZZ	MISC	PISTON, CYLINDER KIT/CUMM	EA	6.00	\$443.75	\$2,662.50

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Job 5 Subtotals	
Parts:	\$10,462.04
Core Charges:	\$0.00
Core Returns:	\$0.00
Labor:	\$5,175.00
Miscellaneous:	\$0.00
Shop Supplies:	\$284.63
EPA Charge:	\$20.00
Job 5 Subtotals	\$15,941.67

Total Parts:	\$16,599.60
Total Core Charges:	\$0.00
Total Core Returns:	\$0.00
Total Labor:	\$8,578.08
Total Miscellaneous:	\$0.00

Total Shop Supplies:	\$499.89
Total Environmental Charge:	\$20.00
Total Sales Tax:	\$1,312.73

Sale Type: On Account

Repair Order 13139 Subtotal: \$27,010.30

**\*\* THIS IS A REVIEW ONLY -- NOT AN INVOICE \*\***