



SAUGATUCK TOWNSHIP FIRE DISTRICT

Proudly serving : Douglas | Saugatuck | Saugatuck Township



3342 Blue Star Highway
Saugatuck, MI 49453
269 857-3000 / Fax: 269 857-1228
E-mail: info@saugatuckfire.org

FIRE DISTRICT “SPECIAL” BOARD MEETING

4:00pm – January 31st, 2022

AGENDA

1. Call to Order:
2. Pledge of Allegiance (*Stand if you are able*):
3. Roll Call:
4. Reminder: It is requested that the board silences cell phones and put them away for the duration of the meeting.
5. Approval of Agenda (*additions / deletions*):
6. Public Comment on Agenda Items Only (Limit 3 minutes):
7. Unfinished Business:
 - A. **None**
8. New Business:
 - A. **Funding Approval Request - Engine #2112 (2011 KME) – Emergency Engine Repair**
9. Public Comments: (Limit 3 minutes):
10. Fire Board Comments:
11. Adjournment:

NOTICE

Request for accommodations or interpretive services must be made 48 hours prior to this meeting.
Please contact Saugatuck Township Fire District at 269-857-3000 for further information.



SAUGATUCK TOWNSHIP FIRE DISTRICT

Proudly serving : Douglas | Saugatuck | Saugatuck Township

Item #8A



3342 Blue Star Highway
Saugatuck, MI 49453
269 857-3000 / Fax: 269 857-1228
E-mail: info@saugatuckfire.org

January 28th, 2022

Funding Approval Form

ITEM DESCRIPTION:

Engine #2112 – (2011 International/KME) – Emergency Engine Repair

PRIORITY:

EMERGENCY

QUALITY FACTORS:

Engine 2112 began experiencing trouble on 1/12/2022 and has been out of service since with no acceleration when put in gear. We contacted K&R Truck Sales, the International Dealer for West MI. After inspecting onsite, they determined there is something further wrong with the turbos and exhaust gas recirculating valve/cooler.

We took the truck to their shop for further diagnosis, and Chief Janik authorized up to \$3,200 in diagnostic time to determine the issue. After the teardown is completed, we received the updated estimate on 1/28/22 for \$26,258.37 which includes the previously approved diagnostic time. The Engine needs the exhaust brake, one turbo, the EGR valve, EGR cooler, and several other tubes/clamps to put it all together. Unfortunately, this is apparently a common issue with the MaxxForce diesel engines in International trucks of that era due to all of the emissions requirements. K&R Estimates the repairs should be complete by about February 11th, 2022.

BUDGETED:

Unbudgeted Expense – 2021/22 Fiscal Year

FUNDING SOURCE(S):

Fund Balance – 2021/22 Fiscal Year - \$26,258.37

COST:

Repair Estimate from K&R – \$26,258.37

Contingency- \$3,741.63

Total = \$30,000.00

REQUESTER:

Deputy Chief Chris Mantels

SAMPLE MOTION:

I _____ motion to authorize Fire District staff to coordinate engine repairs with K & R Truck Sales for Engine #2112 with a not to exceed amount of \$30,000.00. I _____
2nd the Motion. (Roll Call Vote)



Item #8A

840 INTERCHANGE DRIVE
 HOLLAND, MI 49423
 P: (616) 392-8377
 F: (616) 392-6755
 Facility Lic F142376

BILL TO
 SAUGATUCK TWP FIRE DEPARTMENT - 14804
 3342 BLUE STAR HWY
 SAUGATUCK MI 49453
 P: (269) 857-3000
 F:

DELIVER TO
 SAUGATUCK TWP FIRE DEPARTMENT - 14804
 3342 BLUE STAR HWY
 SAUGATUCK MI 49453
 P: (269) 857-3000
 F:

SERVICE ESTIMATE: E201003702

DATE ARRIVED	DATE INVOICE	SALES TYPE	ADVISOR	TERMS	CUSTOMER REFERENCE				
1/18/2022 4:26:01PM		SRET	Kristina Ellens	CASH					
YEAR	MAKE	MODEL	VIN	Unit ID	CUST UNIT #	ENGINE HOURS	IN SERVICE	Component Serial #	ODOMETER
2011	INTERNATIONAL	7000 SERIES	1HTWMAZRBJ386870	105277	2112	0	12/31/9999		0

Estimate Operations

JOB #1 12 ENGINE
 COMPLAINT TEAR DOWN
 CAUSE
 CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
20.00	LABOR 12-10	TEAR DOWN		2,850.00
Prepay: 0.00 Parts: \$0 Labor: \$2,850.00 Misc: \$0 Sublet: \$0				\$2,850.00

JOB #2 SC1 SERVICE CALL - NORMAL HOURS (7AM-5PM MON-FRI)

COMPLAINT SERVICE CALL - NORMAL HOURS (7AM-5PM MON-FRI) 1/12/22
 CUSTOMER COMPLAINED THAT TRUCK HAS NO POWER WHEN SHIFTED INTO GEAR
 CAUSE
 CORRECTION 401-CHECKED CODES, ONLY CODES PRESENT WERE FOR SOOT LOAD, RAN A REGEN, AND TEST DROVE. AFTER DRIVE IT WOULD NOT IDLE CORRECTLY. RESTARTED AND IT CLEARED UP. PERFORMED STANDARD AND AIR MANAGEMENT TEST. DURING STANDARD TEST EXHAUST BRAKE WOULD NOT MOVE, DURING AIR MANAGEMENT TEST IT WOULD TRIGGER AN EGR FLOW CODE AND CANCEL THE TEST. ALL TESTS WERE DONE ON LAPTOP 11.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
22	MILEAG	SERVICE TRUCK MILEAGE @ \$1.75 PER MILE	1.75	38.50
2.70	LABOR SC1	SERVICE CALL - NORMAL HOURS (7AM-5PM MON-FRI)		391.50
Prepay: 0.00 Parts: \$0 Labor: \$391.50 Misc: \$38.50 Sublet: \$0				\$430.00



Estimate Operations (Cont.)

JOB #3 12 ENGINE

COMPLAINT CAUSE CUSTOMER COMPLAINED THAT TRUCK HAS NO POWER WHEN SHIFTED INTO GEAR

CORRECTION 273 - I PULLED A HEALTH REPORT. HAS NO FAULT CODES. ENGINE RUNS ROUGH. RAN AMT AND EGR FLOW FAULT CODE SETS. I DROVE FOR LESS THEN A MILE AND I GOT A DPF PLUGGED MOST SEVERE LEVEL FAULT CODE AND THE EXHAUST TEMP WAS ALREADY OVER 850 DEGREES AT THAT TIME. RECOMEND REMOVING THE DPF AND DOC FOR CLEANING AND CHECKING THE DPFDP TUBES FOR PLUGGING. ALSO NEED TO DO A SNAP THROTTLE TEST WITH THE AFTERTREATMENT DISCONNECTED TO CHECK FOR EXCESSIVE BLACK SMOKE. I FOUND THE EXHAUST BACK PRESSURE VALVE INTERMITENTLY STICKS PARTIALLY CLOSED. RECOMEND REPLACING THE EXHAUST BACK PRESSURE VALVE. ALSO RECOMEND REPLACING THE AFTERTREATMENT FUEL DOSER AS THERE IS AN UPDATED STYLE. I RAN THE EGR VALVE TEST AND IT DID NOT SET A FAULT CODE. NEED TO REMOVE THE INTAKE THROTTLE VALVE AND INSPECT THE EGR MIXING DUCT FOR PLUGGING. IF IT IS PLUGGED THEN WE NEED TO DISSASSEMBLE THAT AND CLEAN IT AND THEN REASEMBLE AND RETEST FOR EGR CODES. IF IT IS NOT PLUGGED THEN WE WOULD NEED TO REPLACE THE EGR COOLER. THIS BUILDS LOW BOOST AT HIGH IDLE NO LOAD. RECOMEND CHECKING INTAKE MANIFOLD PRESSURE SENSOR AND EXHAUST BACK PRESSURE SENSOR AND TUBE FOR PLUGGING. THIS STILL HAS THE ONLD STYLE CRANKCASE BREATHER THAT VENTS BACK INTO THE INTAKE. RECOMEND UPDATING TO THE NEW STYLE THAT IS VENTED EXTERNALY. THIS TYPICALLY REQUIRES THE VALVE COVER TO BE REPLACED. WE WOULD NEED TO CHECK THE VALVE COVER FOR A BAFFLE. THIS DOES HAVE OIL IN THE INTAKE. NEED TO DETERMINE WHERE THE OIL IS COMING FROM. IT COULD BE FROM THE TURBOS OR THE CRANKCASE BREATHER. ALSO NEED TO CHECK FOR INTAKE AIR SYSTEM LEAKS.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
4.00	LABOR 12-10	ENGINE / INSPECT		570.00
	273 - Swain, Brian - M265207			
1	201D/ZST422154	CABLE CROSS-OVER STUD TOP 1	19.00	19.00
Prepay: 0.00 Parts: \$19.00 Labor: \$570.00 Misc: \$0 Sublet: \$0				\$589.00

JOB #4 12 ENGINE

COMPLAINT CAUSE REMOVE DPF INSPECT

CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 12-10	ENGINE / INSPECT		0.00
2	201N/2593754C91	SENSOR EXH GAS TEMP T1	202.22	404.44
1	201N/2593756C91	SENSOR EXH GAS TEMP LT GRAY T2	167.14	167.14
2	201N/2594128C1	CLAMP V-BAND	124.18	248.36
2	201N/2594129C1	GASKET V-BAND FLANGE	27.51	55.02
1	201N/2594803C91	TUBE ASSY FRONT HARDLINE	103.28	103.28
1	201N/3626432C1	SENSOR EXH DELTA PRESSURE W/BR	231.88	231.88
Prepay: 0.00 Parts: \$1,210.12 Labor: \$0 Misc: \$0 Sublet: \$0				\$1,210.12



Estimate Operations (Cont.)

JOB #5 DOC2 DOC STAGE 2 - STANDARD BAKE PROGRAM 1 (DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED OR LABOR TO R&R CREATE ANOTHER OPERATION)

COMPLAINT DOC STAGE 2 - STANDARD BAKE PROGRAM 1 (DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED OR LABOR TO R&R CREATE ANOTHER OPERATION)

CAUSE
CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	DISP	DISPOSAL/ENV FEE	10.00	10.00
1.00	LABOR DOC2	DOC STAGE 2 - STANDARD BAKE PROGRAM 1		200.00
	NOPTS	***DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED C	0.00	

Prepay: 0.00 Parts: \$0 Labor: \$200.00 Misc: \$10.00 Sublet: \$0 \$210.00

JOB #6 DPF2 DPF STAGE 2 - STANDARD BAKE PROGRAM 1 (DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED OR LABOR TO R&R CREATE ANOTHER OPERATION)

COMPLAINT DPF STAGE 2 - STANDARD BAKE PROGRAM 1 (DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED OR LABOR TO R&R CREATE ANOTHER OPERATION)

CAUSE
CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	DISP	DISPOSAL/ENV FEE	10.00	10.00
1.00	LABOR DPF2	DPF STAGE 2 - STANDARD BAKE PROGRAM 1		200.00
	NOPTS	***DO NOT SELL ANY PARTS - IF PARTS ARE NEEDED C	0.00	

Prepay: 0.00 Parts: \$0 Labor: \$200.00 Misc: \$10.00 Sublet: \$0 \$210.00

JOB #7 12 ENGINE

COMPLAINT REPLACE EXHAUST BACK PRESSURE VALVE & SENSOR

THE 30 HOURS ON THIS LABOR LINE IS ALSO FOR THE REPAIR LINES BELOW

CAUSE
CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
30.00	LABOR 12-10	ENGINE / INSPECT		4,275.00
1	201N/1846480C2	SENSOR EBP	82.67	82.67
2	201N/1893794C1	CLAMP EXHAUST PIPE CLAMP TUR	69.24	138.48
2	201N/2015983C1	GASKET EXH PIPE FLANGE	41.17	82.34
1	201N/2512884C91	INJECTOR,KIT, HC INJECTOR W/GA	539.64	539.64
1	201N/7078617C1	TUBE ASSY INJECTOR COOLER INLT	165.02	165.02
1	201N/7078618C1	TUBE ASSY INJECTOR COOLER OUTL	198.15	198.15
1	201N/7095681C92	VALVE,BRAKE, ASSY EXH UNDER RA	1,173.55	1,173.55
1	201N/7095681C92-COI	VALVE,BRAKE, ASSY EXH UNDER RA	100.00	100.00
1	201N/7096184C1	PLUG, M20	4.35	4.35

Prepay: 0.00 Parts: \$2,484.20 Labor: \$4,275.00 Misc: \$0 Sublet: \$0 \$6,759.20



Estimate Operations (Cont.)

JOB #8 12 ENGINE

COMPLAINT REPLACE THE EGR VALVE
 CAUSE
 CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 12-10	ENGINE / INSPECT		0.00
1	201N/1838248C1	GASKET INTAKE THROTTLE	29.06	29.06
1	201N/1846481C92	SENSOR, PRESSURE ASM	86.15	86.15
3	201N/1847988C1	SEAL EGR VALVE	23.74	71.22
1	201N/1884925C1	GASKET INLET DUCT-INTAKE MANIF	24.94	24.94
1	201N/1890997C92	VALVE ASSEMBLY, EGR	1,101.84	1,101.84
Prepay: 0.00 Parts: \$1,313.21 Labor: \$0 Misc: \$0 Sublet: \$0				\$1,313.21

JOB #9 12 ENGINE

COMPLAINT OPEN BREATHER CONVERSION
 CAUSE
 CORRECTION

ESTIMATE

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 12-10	ENGINE / INSPECT		0.00
2	201N/1823644C1	RING O	0.25	0.50
1	201N/1855127C1	RING O SIZE 214	8.17	8.17
1	201N/1885394C1	HARNES ASSY ENG BOOST CONTROL	34.26	34.26
2	201N/1890328C1	SEAL CROSSOVER TUBE	108.93	217.86
1	201N/2512559C91	BREATHER,KIT, OPEN BREATHER CO	1,502.05	1,502.05
Prepay: 0.00 Parts: \$1,762.84 Labor: \$0 Misc: \$0 Sublet: \$0				\$1,762.84

JOB #10 12 ENGINE

COMPLAINT REPLACE HIGH PRESSURE TURBO
 CAUSE
 CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 12-10	ENGINE / INSPECT		0.00
12	201N/1841574C2	NUT FLANGE M10 X 1.25 SPL THD	20.55	246.60
4	201N/1881555C1	STUD M10 X 75MM	21.92	87.68
3	201N/1882825C1	STUD M10 X 39MM	12.83	38.49
1	201N/1883181C1	GASKET TURBO MOUNTING	33.11	33.11
1	201N/1883182C1	GASKET TURBO OUTLET	31.79	31.79
1	201N/1885356C93	TUBE ASSY LP TURBO OIL DRAIN	263.14	263.14
1	201N/1885360C95	TUBE, ASSY HPTURBO OIL DRAIN	172.93	172.93
1	201N/1885590C93	TUBE ASSY, TURBO OIL SUPPLY	261.23	261.23
1	201N/1885691C1	RING O 2.62 X 61.6 ID	3.86	3.86
1	201N/1885693C1	CLAMP V-BAND	71.14	71.14
1	201N/3532801C1	FILTER,ELEMENT AIR CLEANER PRI	131.17	131.17



Estimate Operations (Cont.)

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	201N/5010932R91	TRBOCHGR,KIT, REMAN TURBO SUPE	3,106.28	3,106.28
1	201N/5010932R91-COI	TRBOCHGR,KIT, REMAN TURBO SUPE	300.00	300.00
Prepay: 0.00 Parts: \$4,747.42 Labor: \$0 Misc: \$0 Sublet: \$0				\$4,747.42

JOB #11 12 ENGINE

COMPLAINT REPLACE EGR COOLER
 CAUSE
 CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 12-10	ENGINE / INSPECT		0.00
1	201D/FLTAC3719890	DRYER 13-16 INTERNATIONAL PROS	172.32	172.32
3	201N/1871578C1	NUT M8 X 1.25 X 10	3.04	9.12
4	201N/1875808C1	GASKET EXHAUST SINGLE LAYER	15.68	62.72
1	201N/1882684C1	SEAL EGR PIPE	42.80	42.80
1	201N/1889327C96	DUCT,KIT, EGR MIXING DUCT W/ S	949.34	949.34
1	201N/1889335C95	DUCT,KIT, EGR CROSSOVER DUCT A	981.52	981.52
1	201N/2513976C92	COOLER,KIT, EGR CLR HIGH FIN D	2,934.74	2,934.74
1	201N/2513976C92-COI	COOLER,KIT, EGR CLR HIGH FIN D	500.00	500.00
1	201N/FLTACMT3903	RAPID SEAL KIT- NAVISTAR SLIM	14.00	14.00
1	201X/R134ASHOP	R134A FREON/LB	10.02	10.02
Prepay: 0.00 Parts: \$5,676.58 Labor: \$0 Misc: \$0 Sublet: \$0				\$5,676.58

JOB #12 10 MISCELLANEOUS

COMPLAINT CLEAN CAC
 CAUSE
 CORRECTION

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
0.00	LABOR 10-10	MISCELLANEOUS / INSPECT		0.00
Prepay: 0.00 Parts: \$0 Labor: \$0 Misc: \$0 Sublet: \$0				\$0.00

Estimate Operations Totals

Prepay: 0.00 Parts: \$17,213.37 Labor: \$8,486.50 Misc: \$58.50 Sublet: \$0.00

\$25,758.37



ESTIMATE

CUSTOMER APPROVAL FOR REPAIRS NOT COVERED BY WARRANTY, POLICY, OR FIELD CHANGES	STATEMENT OF DISCLAIMER THE FACTORY WARRANTY CONSTITUTES ALL OF THE WARRANTIES WITH RESPECT TO THE SALE OF THIS ITEM/ITEMS. THE SELLER HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THIS ITEM/ITEMS.	<table border="1"> <thead> <tr> <th></th> <th>ESTIMATED</th> <th>BILLED</th> </tr> </thead> <tbody> <tr> <td>LABOR</td> <td>\$8,486.50</td> <td></td> </tr> <tr> <td>PARTS</td> <td>\$17,213.37</td> <td></td> </tr> <tr> <td>MISC</td> <td>\$58.50</td> <td></td> </tr> <tr> <td>SUBLET</td> <td>\$0.00</td> <td></td> </tr> <tr> <td>PREPAY</td> <td>0.00</td> <td></td> </tr> <tr> <td>SUBTOTAL</td> <td>\$25,758.37</td> <td>\$25,758.37</td> </tr> <tr> <td>SHOP SUPPLIES</td> <td></td> <td>\$500.00</td> </tr> <tr> <td>DISP FEES</td> <td></td> <td>\$0.00</td> </tr> <tr> <td>TAX</td> <td></td> <td>\$0.00</td> </tr> <tr> <td>TOTAL</td> <td></td> <td>\$26,258.37</td> </tr> </tbody> </table>		ESTIMATED	BILLED	LABOR	\$8,486.50		PARTS	\$17,213.37		MISC	\$58.50		SUBLET	\$0.00		PREPAY	0.00		SUBTOTAL	\$25,758.37	\$25,758.37	SHOP SUPPLIES		\$500.00	DISP FEES		\$0.00	TAX		\$0.00	TOTAL		\$26,258.37
		ESTIMATED	BILLED																																
LABOR	\$8,486.50																																		
PARTS	\$17,213.37																																		
MISC	\$58.50																																		
SUBLET	\$0.00																																		
PREPAY	0.00																																		
SUBTOTAL	\$25,758.37	\$25,758.37																																	
SHOP SUPPLIES		\$500.00																																	
DISP FEES		\$0.00																																	
TAX		\$0.00																																	
TOTAL		\$26,258.37																																	
FINANCE CHARGES WILL APPLY IF THE NEW BALANCE IS UNPAID ONE MONTH FROM CLOSING DATE OF STATEMENT. FINANCE CHARGE IS COMPUTED BY A PERIODIC RATE OF 2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 24% APPLIED TO THE PREVIOUS.	TERMS: STRICTLY CASH UNLESS ARRANGEMENTS MADE I HEREBY AUTHORIZE THE REPAIR WORK HERIN SET FORTH TO BE DONE ALONG WITH THE NECESSARY MATERIALS AND AGREE THAT YOU ARE NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR ARTICLES LEFT IN VEHICLE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND YOUR CONTROL OR FOR ANY DELAYS CAUSE BY UNAVAILABILITY OF PARTS OR DELAY IN PARTS SHIPMENTS BY THE SUPPLIER OR TRANSPORTER. I HEREBY GRANT YOU AND/OR YOUR EMPLOYEES PERMISSION TO OPERATE THE VEHICLE HEREIN DESCRIBED ON THE STREETS, HIGHWAYS, OR ELSEWHERE FOR THE PURPOSE OF TESTING AN/OR INSPECTION. AN EXPRESS GARAGE KEEPER'S LIEN IS HEREBY ACKNOWLEDGED ON THIS VEHICLE TO SECURE THE AMOUNT OF REPAIRS THERETO. I UNDERSTAND THAT PURSUANT TO SAID EXPRESS GARAGE KEEPER'S LIEN, I HAVE NO RIGHT OF POSSESSION TO THE ABOVE VEHICLE UNTIL THE REPAIRS THERETO HAVE BEEN PAID IN FULL OR UNTIL YOU AND/OR YOUR EMPLOYEES HAVE RELEASED THE VEHICLE TO ME. ALL PARTS INSTALLED ARE NEW UNLESS SPECIFIED OTHERWISE																																		
AUTHORIZED BY _____ DATE _____	-CERTIFICATION - All repairs and parts listed were furnished in compliance with Michigan Auto Repair Ace (P.A.300). _____ Company Authorized Representative	PLEASE REMIT PAYMENT TO: K&R Truck Sales, Inc. 840 INTERCHANGE DRIVE HOLLAND, MI 49423																																	