



Branch			
Ship to:	Date 09/30/19	Time 12:02:11 (O)	Page 02
Invoice to:	Account No.	Phone No.	Invoice No.
	Ship Via	Purchase Order	
	Tax Exemption Number	Federal ID Number	
	Salesperson		

### SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X836751	ENGINE	2782	PE5030T193009	04/01/14	2000
V -21	5030T		PE5030T193009		
PM710XX280			MARKER&SEALANT	1	
PROMOCE			RDO coverage	1-	
RE527599			Fuel Injection	5 N	
CRRE527599			Fuel Injection		
RE532211			FUEL PUMP	1	
RE540179			HOSE FITTING	1 N	
20100			ONE SHOT	4	
10401099					LABOR
				SEGMENT TOTAL==>	

SEGMENT# 2 C NSC01 RDO-020-DIAG 09/10/19 09/13/19

#### ENGINE DIAGNOSTICS

##### CONDITION:

Need to set fuel rack  
 Blake Friend: 605-848-2692  
 Sam: 605-360-2497  
 TranSource just put fuel shut off solenoid, worked for a while, but engine smokes and runs rough. Sometimes will not start.

605-848-2692

Engine will not run.

##### CORRECTION:

- Tried started machine and machine will crank but not start with excessive smoke coming out of exhaust
- Removed outer engine covers
- Primed fuel system
- Tried starting engine again and same symptoms still persist
- Removed fuel supply line from mechanical fuel pump and checked fuel output to cylinder head and there is barely any fuel coming out of hose

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-Replaced mechanical fuel pump  
 -Tried starting engine and engine still does not start  
 -Determined injection pumps and injector nozzles need to be replaced  
 -Replaced injection pumps and nozzles on another segment of this work order  
 -Tried starting engine and engine still would not start  
 -Submitted DTAC case  
 -DTAC said engine timing is most likely the cause of no start issue with everything we've replaced and diagnostics performed  
 -Engine would need to come out or front cooling package would have to be removed to get front timing cover off to adjust timing

10401099

LABOR  
SEGMENT TOTAL==>

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

LABOR	SUB TOTAL==>	3194.15
	SD ABERDEEN 6.5%	
	SD ABERDEEN 6.5%	
	TOTAL DUE RDO	

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**SERVICE INVOICE**

STK#/FLEET#

X836751 ENGINE

V -21 5030T

PLEASE REMIT TO:

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2782	PE5030T193009	04/01/14	2000
	PE5030T193009		

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