



# ADF Diesel Toronto Inc.

6103 Shawson Drive, Mississauga, ON, CA, L5T 1E4

1-877-619-2237 / www.adfdiesel.com

TPS/GST: 861771376

## Invoice

Invoice # FA05-362204

Date 2024-04-16

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Account #  
28650

Account Name  
F.C.M. CONSTRUCTION LTD. / COD

Purchase Order  
F2400R002

Prepared By  
Manuel Rodrigues

Date  
2024-04-16

Contact  
JOHN FRIAS

Shipped By  
PICK UP PICK UP BY CUSTOMER

Terms and conditions  
COD

Billed To  
28650 - F.C.M. CONSTRUCTION LTD. / COD  
2401, ROYAL WINDSOR DRIVE

Shipped To  
28650 - F.C.M. CONSTRUCTION LTD. / COD  
2401, ROYAL WINDSOR DRIVE

OAKVILLE, ON, CA, L6J 4Z2  
905-339-0990

OAKVILLE, ON, CA, L6J 4Z2  
905-339-0990 L6J 4Z2

Product #	Description	Qty. ordered	Qty. shipped	Price	Amount
	MAKE: CUMMINS MODEL: N14 MECH ESN: 11867733 CPL: 2033				
	EQR-8389 WARRANTY: 1YR/UNL. HRS				
ENGN14IND-ADF	MOTEUR N14 REMAN INDUSTRIEL SN: 11867733			38,000.00	38,000.00
	REBUILD CUSTOMER ENGINE				
	NOTE: DAMAGED CASTINGS WILL BE EXTRA				
Z08	engine block scrap			3,000.00	3,000.00
	camshaft is scrap no charge				
	LEAD TIME 20-30 WORKING DAYS				
	THANK YOU!!!!				

### TERMS AND CONDITIONS

- 20% handling charge on all returns;
- All return must be in original packaging;
- All electric or electronic parts, as well as special order parts, are non-returnable;
- No credit without this invoice or after 30 days of purchase date;
- Late fees of 2% per month or 24% per annum will be charged on any overdue balance. Our payment terms are Net 30, unless otherwise specified. The term "COD" indicates immediate payment terms.

For more details: <https://adfdiesel.com/terms-and-conditions>

Currency	CAD
Surcharge	0.00
Subtotal	41,000.00
GST/HST	5,330.00
TPS	0.00
Total	\$ 46,330.00



**Hamilton Tractor Corp.**

1435 Highway 56  
Caledonia, ON  
N3W 1T1  
Tel: 289-442-1155  
www.hamiltontractor.ca

<b>Amount Due</b>	<b>\$ 14,977.46</b>
Paid to Date	0.00
Balance Owing	14,977.46

# INVOICE #04128

**Billing Address:**

**FCM Construction Limited.**

ATTN: John Frias  
2401 Royal Windsor Drive  
Oakville ON L6J 7X6  
Tel: 647-215-2738  
mfrias@fcmltd.com

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INVOICE DATE	May 30, 2024
DUE DATE	June 29, 2024
JOB NAME	Hitachi, 550 Engine
COMPLETED	May 6, 2024
LOCATION	Goreway Dr & Queen St E Brampton, ON

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## Work Requested

**Make:** Hitachi

**Model:** 550

**Serial:** 17HP007091

**Hours:** 15730

**Work Order Details:** Installed rebuilt engine.

## Work Completed

**Apr 18: #04128**

Traveled to site, Brampton. 2 Tech's on site

Inspected generator for oil leak and installed serpentine belt on Cat excavator.

Waited for engine to arrive.

Used crane to hoist engine from trailer and unbolted engine stand for customer to take back.

Customer wanted to wash cooling package before installing engine.

Waited for pressure washer to arrive.

Prepped everything possible while waiting.

Washed cooling package.

Used crane to hoist engine into frame.

Installed pumps on engine and bolted engine mounts.

Started connecting all previously removed parts.

Will return following week for finish install.

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**Apr 22: #04128**

Loaded up oil, coolant and parts for completion of engine install.

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**Apr 23: #04128**

Traveled to site - Goreway and Queen St - Brampton

Completed engine install.

Installed all harness components to lower half of engine.

Installed fan drive, a/c compressor belts and fan shroud.

Filled with engine oil, changed customer supplied remote filters. - 40L 10w30

Filled with coolant - 60L ELC

Cranked machine with fuel solenoid disconnected to build oil pressure.

Started machine and verified no abnormal noises and engine is running well.

Removed outer cover on each final drive and installed sun gear.

Sealed and filled with oil.

Turned all relief valves back in and verified all functions are working- O.K

Has light on in dash for coolant level.

Level is ok, light goes out when shorted. Needs switch, will order.

Investigated throttle issue with original throttle.

Connected with service tool and checked for signal/output from main controller-O.K.

Back probed for power on both motor circuits as well as position sensor values-O.K.

EC motor has failed, Will order and repair when in.

\*\*\* Machine still requires upper rad hose replacement, throttle parts to be replaced and coolant level sensor.

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**Apr 29: #04128**

Traveled to and from site - Goreway and Queen St Brampton

Removed lower left skid pans. Removed old EC motor and disconnected.

Installed and routed new throttle cable. Connected to throttle of engine and to new EC motor.

Installed EC motor and base adjusted cable.

Connected EC motor and ran machine to test. Found EC motor not responding to input.

Checked fuses. ok. Relays are in difficult to access spot on right side of cab.

Removed all panels on right side of cab, and located EC motor relay.

Checked for power on power 1 circuit. Ok.

Checked for signal. Found no power on load terminal. Chased wiring and noted melted wiring in harness.

Ran new signal wire.. ok

Ran machine and checked EC motor operation, found it now works, but is way out of adjustment.

Ran through adjustment procedure and adjusted all stops to allow machine to idle, and shut down.

Machine now running correctly.

Customer noted machine low on power. Inspected and found engine speed for TSC is missing.

Checked and found it wired incorrectly. Repaired wiring and found machine now runs well.

Drained coolant down and removed/replaced upper rad hose.

Filled coolant and checked for leaks. All ok at this time.

Diagnose new alternator on reman engine not charging.

Customer will pick up replacement alternator.

**May 06: #04128**

Travel to site.

Checked charging only 23 volts.

Removed alternator.

Swapped pulley and installed on new alternator supplied by customer.

Installed new alternator and tightened belts.

Ran machine, checked charging, 27.6 volts working.

**Materials**

Part Description	QTY	Subtotal
407 QEW to 400/Jane   PN Heavy Truck 407 Trip one direction	2 each	140.08
407 QEW to 400/Jane   PN Light Truck 407 Trip one direction	2 each	66.64
Gear Oil	1.00	329.98
EC Motor - Throttle Control	1.00	1,588.59
Throttle Cable	1.00	1,892.81
Level Switch	1.00	315.55
Engine Install Parts	1.00	450.62
Diesel Engine Oil   PN 10w30	50 lt	312.00
Extended life coolant   PN ELC - Red	59.9 lt	285.12
		<b>Total 5,381.39</b>

## Labour

Type	Total Hrs	Rate	Sub-Total
Field Labour	45.00	157.00	7,065.00
		<b>Total</b>	<b>7,065.00</b>

## Summary

Zone 4 Service Call	Qty: 2		660.00
Fuel Surcharge	Qty: 2		48.00
Supplies (capped)	Qty: 1		100.00
Materials			5,381.39
Labour	45.00 hrs		7,065.00
Subtotal			13,254.39
HST # 729828335	13 %		1,723.07
	<b>Total</b>		<b>\$ 14,977.46</b>

Payment terms: Net 30 days

Please make cheques payable to Hamilton Tractor Corp. 1435 Hwy 56 Caledonia, ON N3W 1T1 or  
Send etransfers to [accounts@hamiltontractor.ca](mailto:accounts@hamiltontractor.ca)