NC MACHINERY CAT

NC Machinery
PO Box 58201
Tukwila, WA 98138-1201
WA - (425) 251-5800 | AK - (907) 786-7500

Remit Payment To :
Harnish Lockbox LB1208
PO Box 35144
Seattle, WA 98124-5144

SERVICE INVOICE

Invoice Number	Invoice Date	Customer Number
MNWO3335582	09/30/2026	0248910
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To View & Pay Online Go To:		MyNCMachinery.billtrust.com
Use this Enrollment Code:		HMB XFM PFS

SOLD TO

GRADY EXCAVATING INC
PO BOX 467
MUKILTEO WA 98275-0467

SHIP TO

CATHCART WAY
snohomish, WA 98296

Document Number	Doc Date	Customer Number	Model	Customer Equipment No.
MN18714	08/18/2026	0248910	D9T	2309
Make	**Machine ID**	**Serial Number**	**Meter Reading**	**Ship Via**
AA	24W0538	*CAT00D9TPREX00619*	10547.0	

Quantity	Item	N/R	Description	Stocked	Unit Price	Extended Price
			* * * C A S H * * *			
INSPECT .						
INSPECTION						
					FIELD LABOR	107.50
					TOTAL LABOR SEG. 0	107.50
-1			INVOICE ADJUST			-107.50
					TOTAL MISC CHGS SEG. 0	-107.50
					SEGMENT 00 TOTAL	0.00

REMOVE AND INSTALL EXHAUST COOLER
MACHINE HAD FAULT CODE FOR HIGH DPF INLET PRESSURE. DPF HAD BEEN RECENTLY SERVICED/REPLACED ABOUT 500 HOURS AGO SO ITS GOOD. WHEN INSPECTING THE MACHINE I FOUND THAT THERE WAS GOOD AMOUNT OF COOLANT COMING OUT OF THE OUTLET ON THE EGR COOLER. REMOVED THE END AND FOUND THAT THE COOLER HAD BEGUN TO FAIL AND STARTED PUSHING COOLANT INTO THE INTAKE AND THEN TRYING TO BURN IT OFF. IN WHICH CAUSED THE DPF TO FACE PLUG. I ORDERED THE NEW UPDATED EGR COOLER WITH NEW PIPES, MOUNTS AND SEALS. DRAINED COOLANT AND REMOVED TURBO TO ACCESS THE COOLER. REMOVED THE COOLER AND RETURNED THE NEXT DAY WHEN PARTS ARRIVED. REINSTALLED THE NEW COOLER AND MOUNTS. INSTALLED THE TURBO WITH ALL NEW SEALS. PULLED VACCUM AND FILLED THE COOLANT SYSTEM WITH NEW COOLAT. RAN MACHINE CHECKED FOR LEAKS. RAN A MANUAL REGEN AND IT PASSED WITH NO ISSUES. INFORMED MECHANIC ON SITE WE WILL NEED TO MONITOR THE AFTERTREATMENT FOR THIS MACHINE DUE TO THE FACT IT WENT THROUGH ABOUT 3-4 GALLONS OF COOLANT THROUGH THE SCR SYSTEM. PULLED FINAL PSR AND RETURNED THE MACHINE BACK TO SERVICE.

6	0L-1352	CAP SCREW	N	1.53	9.18
2	0S-0509	BOLT	N	0.43	0.86
1	0S-1594	CAP SCREW	S	0.53	0.53
1	2B-2695	CAP SCREW	N	0.34	0.34
1	3E-4352	WASHER	S	0.54	0.54
2	4F-7957	CAPSCREW	N	0.26	0.52
7	5M-2894	WASHER	S	0.47	3.29
2	5P-0537	WASHER	S	0.36	0.72

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2	6V-6609		SEAL	S	1.49	2.98
2	7L-6580		SEAL O RING	S	3.33	6.66
2	8T-4136		BOLT	S	0.79	1.58
1	8T-9588		SEAL	N	3.19	3.19
3	9N-5085		CLAMP	S	57.18	171.54
1	165-3933		BOLT-HEX HEA	N	1.29	1.29
1	197-8419		GASKET	S	3.73	3.73
1			CORE CHARGE	S	951.21	951.21
-1			CORE RETURN	N	951.21	-951.21
1	210-9246		SEAL-O-RING	S	10.82	10.82
1	230-5010		PLUG AS-CONN	S	6.76	6.76
1	324-9290		BELLOWS AS.-	S	220.84	220.84
1	331-9208		VALVE GP-SOL	S	289.74	289.74
1	349-9659		GASKET	N	21.57	21.57
4	375-2467		LOCKNUT-FLAN	N	3.75	15.00
5	437-8200		COOLANT-ELC	S	95.03	475.15
1	445-6881		HOSE	S	16.52	16.52
1	449-3065		COOLER AS-NR	N	3,120.95	3,120.95
1	493-0357		TUBE AS-WATE	N	252.54	252.54
1	493-0358		TUBE AS-WATE	N	207.63	207.63
1	493-1489		BRACKET AS	N	144.98	144.98
4	510-3002		CLAMP AS	N	44.03	176.12
2	523-4273		CLAMP-BAND	S	6.40	12.80
1	567-4589		BRACKET-MOUN	N	286.34	286.34
				TOTAL PARTS	SEG. 0	5,464.71
					F/R	3,500.00
1			SPO SHIP&HANDLE			60.00
1			SPO SHIP&HANDLE			60.00
				TOTAL MISC CHGS	SEG. 0	120.00
					SEGMENT 01 TOTAL	9,084.71

TROUBLESHOOT FAULT CODE
MACHINE WAS DERATED AND THROWING A FAULT CODE FOR INLET NOX SENSOR FAILURE. DROVE TO MT VERNON TO GET NOX SENSOR SO CUSTOMER WASN'T DOWN AN EXTRA DAY. VERIFIED WIRING WAS GOOD. NOX SENSOR CAME OFF OF MOUNT AND WAS FLOPPING AROUND AND THAT'S PROBABLY WHY IT FAILED DUE TO IT GETTING BOUNCED AROUND NOT SECURE WHILE OPERATING. INSTALLED NEW SENSOR AND LOCKTITE'D THE MOUNTING BOLTS TO MAKE SURE THEY DIDN'T COME LOOSE AGAIN. RAN A FUNCTIONAL TEST AND IT PASSED WITH NO ISSUES. PULLED PSR AND RETURNED THE MACHINE BACK TO SERVICE.

1	197-8418		GASKET	S	3.49	3.49
2	197-8419		GASKET	S	3.73	7.46
1	539-0117		SENSOR AS-NO	S	1,001.73	1,001.73
2	592-0728		CLAMP AS	N	153.36	306.72

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Quantity	Item	N/R	Description	Stocked	Unit Price	Extended Price
				TOTAL PARTS	SEG. 0	1,319.40
					F/R	1,250.00
					SEGMENT 02 TOTAL	2,569.40

REMOVE AND INSTALL DIESEL PARTICULATE FILTER
MACHINE THREW FAULT CODE FOR HIGH DPF INLET PRESSURE AGAIN AFTER PREVIOUSLY REPLACING THE EGR COOLER DUE TO IT FAILING. THE DPF HAD GOTTEN FACE PLUGGED FROM THE COOLANT GOING THROUGH THE EXHAUST AND THE DPF AS WELL AS THE DOC BOTH NEEDED TO BE REMOVED TO HAVE CLEANED. I REMOVED THE DPF AND DOC THEN DROVE THEM UP TO DPF ALTERNATIVES TO HAVE THEM CLEANED. PICKED UP DPF/DOC AND THEN RETURNED TO REINSTALL BOTH. REINSTALLED WITH NEW HARDWARE AND CLAMPS AS NEEDED. RESET THE DPF AND RAN A MANUAL REGEN WITH NO ISSUES. PULLED PSR AND RETURNED THE MACHINE BACK TO SERVICE.

1	6V-0472	ADAPTER	S	11.06	11.06
2	7W-3556	WASHER	S	1.40	2.80
1	216-7951	ADAPTER-ELBO	N	15.72	15.72
3	346-0335	CLAMP-BAND	S	33.33	99.99
			TOTAL PARTS	SEG. 0	129.57
				F/R	1,950.00
1		OUTSIDE SERVICE			700.00
			TOTAL MISC CHGS	SEG. 0	700.00
				SEGMENT 03 TOTAL	2,779.57

TROUBLESHOOT SCR CATALYST
COMPLAINT: MACHINE DERATED AND THROWING LOW CONVERSION CODES
CAUSE: SCR NOT CONVERTING NOX ENOUGH

RESULTANT DAMAGE: REPLACED SCR
COMPLICATIONS: NONE
CORRECTION: MACHINE IS DERATED AND THROWING LOW CONVERSION FAULT CODE E1309. MACHINE PREVIOUSLY HAD AN NRS COOLER FAILURE AND WENT THROUGH ABOUT 4-5 GALLONS OF COOLANT BEFORE THE REPAIR. PREVIOUSLY HAD THE DPF AND DOC CLEANED. MACHINE HAS NEW UPDATED NOX SENSORS. I TESTE THE DEF AND FOUND IT WAS WITHIN SPECIFICATIONS. I PULLED THE DEF INJECTOR AND FOUND IT WAS CRYSTALIZED OVER THE TIP PRETTY BAD. RAN AN ACCURACY TEST ON THE DEF INJECTOR AND THE SPRAY PATTERN WASN'T MISTING IT AS IT SHOULD. ORDERED A NEW DEF INJECTOR, RAN BACK TO THE SHOP AND REINSTALLED IT. RAN A AFTERTREATMENT FUNCTIONAL TEST, NOX SENSOR

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FUNCTIONAL TEST AND A MANUAL REGEN WITH NO ISSUES. PULLED PSR AND RETURNED THE MACHINE BACK TO SERVICE. CUSTOMER RAN MACHINE FOR ABOUT A DAY AND THE E1309 LOW CONVERSION CODE CAME BACK. THE ONLY THING LEFT IS THAT THE SCR ISN'T COVERTING NOX ENOUGH DUE TO COOLANT PASSING THROUGH IT FROM THE PREVIOUS NRS COOLER FAILRE. ORDERED A NEW SCR AND REPLACED IT. RESET THE SCR AND CLEARED THE CODES. RAN A FUNCTIONAL TEST AND A MANUAL REGEN WITH NO ISSUES. PULLED FINAL PSR AND RETURNED THE MACHINE BACK TO SERVICE.						
**********						
1	177-9343		CAP&PROBE G.	S	2.28	2.28
1	388-7016		CLAMP-BENT B	N	20.91	20.91
1 42	-8524		ILTER GP S			54.44
	H2192 DISCOUNT 25.00%		13.61- 40.83			
1	447-8161		CATALYST AS-	N	8,792.72	8,792.72
1	485-9752		INJECTOR AS-	S	415.83	415.83
1	539-0118		SENSOR AS-NO	S	1,001.73	1,001.73
10	625-1658		FLUID-UREA	S	27.00	270.00
1	HGSHOP-CI		OIL SAMPLE SHOP-CI	S	19.85	19.85
1	3096931		CAT HYDO ADV 10 PA	S	131.63	131.63
1	3096932		CAT HYDO ADV 10 CA	S	26.60	26.60
				TOTAL PARTS	SEG. 0	10,722.38
					F/R	3,600.00
1			SPO SHIP&HANDLE			825.00
				TOTAL MISC CHGS	SEG. 0	825.00
					SEGMENT 04 TOTAL	15,147.38

TRAVEL TO/FROM MACHINE
CATHCART WAY
SNOHOMISH
WA
98296
DROVE TO MT VERNON TO PICK UP NOX SENSOR. DROPPED OFF AND PICKED UP DPF AT DPF ALTERNATIVES IN MARYSVILLE.

	F/R	2,325.97
	SEGMENT 99 TOTAL	2,325.97

TOTAL PARTS DISCOUNT	-13.61
CONSUMABLES	700.00

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Quantity	Item	N/R	Description	Stocked	Unit Price	Extended Price
					ENVIROMENTAL FEE	312.23
					MONROE WA TAX	3,094.41
	60 DAYS					
					USD	36,013.67

***We are no longer accepting virtual credit card payments. Please pay via our Billtrust online payment portal using one of the payment methods available.**

****Please do not send communication or virtual credit card payments to custdeposits@harnishgrp.com, this email address is intended for payment remittances only.**

This Service is subject to all terms and conditions set forth in the NC Machinery Co. Work Authorization, including LIMITED WARRANTY AND RELEASE and EXCLUSION OF LIABILITY set forth on the authorization.

TERMS: DUE NET 30 DAYS FROM THE INVOICE DATE.

Each payment or sum past due shall bear a late payment of 1.5% per month (APR 18%) or an amount not to exceed the highest rate permitted by law.

CAT

Pay this Amount	**$36,013.67**
Amount Credit	

Please send remittance to Harnish Lockbox LB1208, PO Box 35144 Seattle, WA 98124-5144.

Merchandise cannot be returned for credit without our prior approval and only in accordance with our Parts Return Policy. A copy of the policy is available upon request.