

17104 - 118 Ave., Edmonton, AB, T5S 2L7 Tel: 780.452.2790 Fax: 780.451.2678 www.horizonagturf.com

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Invoice	SUPPLY MANAGEMENT SERVICE					
-	EDMONTON AB T6G 2R3				Salesper	son
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SERVICE INVOICE

STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS

120933 328D SKID STEER LO 5878 1T0328DKJA0188523 12/15/11

120933 328D PE5030L038795 12/13/14 3000 X

SEGMENT# 1 S 498 NA 09/05/24 09/09/24

SERVICE CALL CALDER 780-984-2094

ADDITIONAL DESCRIPTION:

- SEPTEMBER 9

- SEPTEMBER 11

LABOR 410.00

SEGMENT TOTAL==> 410.00

SEGMENT# 2 S 498 NA 09/05/24 09/09/24

CHECK AND ADVISE UNIT KEEPS DERATING

COMPLAINT:

10102001

- 001569.31 Engine in Derate Condition
- 000105.00 Intake Manifold Air Temperature Signal

Extremely High

CORRECTION:

- SEPTEMBER 9, - TECH 498:

Got parts and traveled out to the unit. Located the unit on site. Started the unit and operated the unit. Found there was 3 active codes. Found codes 94.18 ecu, 105.00 ecu and 1569.31 ecu were active. Checked the diagnostics for the codes. Tested and went through the diagnostics for code 105.00 ecu. Found the air intake temperature sensor on the intake tube was faulty and was open. Removed and replaced the sensor. Connected to service advisor and reprogrammed the ecu. Tested unit operation and found code 94.18 ecu was still active. Removed the fuel pickup tubes from the fuel tank and blew out the lines to make sure there was no debris stuck in there. Remove the fuel filter and replaced

CONTINUED ON PAGE 02

A SERVICE CHARGE ON OVERDUE ACCOUNTS AT THE RATE OF 2 % PER MONTH (24 % PER ANNUM). STORAGE FEES WILL BE CHARGED AFTER 30 DAYS.

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120933 328D SKID STEER LO 5878 1T0328DKJA0188523 12/15/11

120933 328D PE5030L038795 12/13/14 3000 X

the fuel filter. Operated the unit for quite some time and found the code was still coming up. Tested the unit several different times to try to get the unit to derate and it did.

- SEPTEMBER 11,

Got parts and traveled back out to the unit. Tested the fuel pressure sensor and it was good. Operated the unit and watched the fuel pressure through the diagnostics and found the fuel pressure is dipping down to 22 psi which is too low and the 94.18 ecu code is thrown. Removed the cab hardware. Removed the fuel hoses from the fuel transfer and removed the mounting hardware from the transfer pump which took some time since the engine was really warm. Removed the fuel transfer pump and installed a new fuel transfer pump. Applied blue Loctite to the mounting bolts and installed the hardware which took some time to install cause of the tight space. Installed the fuel hoses and tightened the clamps. Lowered the cab and fastened the hardware. Tested unit operation, no other issues found. The unit was running the unit with no issues. No issues at this time.

- SEPTEMBER 18,

Customer called back. Codes are back. Recommend unit come into shop.

ENV50 ENVIRO CHARGE 1 .55 .55 RE525016 THERMOCOUPLE 1 78.25 78.25

Temperature Sensor

RE533026 FILTER ELEMENT 1 45.92 45.92 CONTINUED ON PAGE 03

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120933	328D SKID STEER LO	5878	•		12/15/11		CAI			
120933	328D	3070	PE5030L03879		12/13/14		000 x			
RE534346		FUEL PU		1	273.43		700 A		272	.43
KE554540		FUEL PO	JMP	1	PARTS				_	3.15
					LABO				1350	
10102001				CECME	NT TOTAL==				1748	
				SEGME	NI IOIAL				1/40	.15
SEGMENT#			24 10/08/24							
	D ADVISE DERATE (SHOP)									
	over machine for cause	e or code	es and created	1						
estimate	for repairs				T 7 D O I	n			220	
10102001				CECME	LABOI					0.00
10102001				SEGME	NT TOTAL==	?			320	.00
SEGMENT#	4 S 1279 NA	09/05/2	24 10/22/24							
REPAIR A	IR TEMP CODES									
	d issues with air temp	and coo	oling codes							
created	estimate for repairs									
drained										
replaced	plugged and damaged r	ad and t	hermostat							
replaced	cracked cap									

replaced faulty sensors replaced stuck fan bypass valve

refilled cooling system and cleared codes

removed and replaced plugged and damaged intercooler

operated unit for a couple of hours

codes did not return

00000 010 1100 1000111			
AT364586	Radiator	1 N 1138.26	1138.26
AT383864	Valve	1 823.64	823.64
AT406231	Intercooler	1 N 1402.76	1402.76
KV14384	CAP *	1 14.36	14.36
KV26154	ISOLATOR	1 45.85	45.85
		CONTINUED ON PAGE 04	

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Invoice to:	UNIVERSITY OF ALBERTA 116 STREET 85 AVENUE NW SUPPLY MANAGEMENT SERVICE EDMONTON AB T6G 2R3

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SERVICE INVOICE

STK#/FLEET# 120933	328D SKID ST	EER LO	HRS 5878	PIN/EIN 1T0328DKJA		RANTY DATE 12/15/11	HRS	
120933	328D			PE5030L038	3795	12/13/14	3000 X	
RE525016			THERMOC	OUPLE	1	78.25		78.25
	Tempera	ture Se	nsor					
RE526916			THERMOS	TAT	1	77.48		77.48
TY26576			COOL-GA	RD II	1	58.32		58.32
T158424			Washer		2 N	8.59		17.18
19M7785			BOLT		2	2.20		4.40
						PARTS		3660.50
						LABOR		800.00
10102001					SEGMENT	T TOTAL==>		4460.50

SEGMENT# 5 S 1279 NA 09/05/24 10/22/24

REPAIR FUEL PRESSURE CODES - 94.18

confirmed low fuel pressure code 94.18 active intermitantly disconnected fuel hose from pick up tube

removed tube and confirmed tube was clear

reinstalled tube and installed missing hose and inline fuel filter

raised cab and disconnected return hoses from rear of head replaced fuel rail check valve and reconnected hoses cleared codes

after fuel tank was drained and flushed, operated unit for several hours and found codes did not return

check fuel pressure in diagnostic menu and confirmed fuel pressure within spec

fuel system maintains 31-32 PSI at all times

codes did not return

ENV50 ENVIRO CHARGE

.55 .55 11.79 11.79 PMFF149 FUEL FILTER 1 RE537400 Tee Fitting 1 N 106.36 106.36 2.97 65127 5/16 HOSE FUEL 1 2.97 CONTINUED ON PAGE 05

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SERVICE INVOICE

STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS 120933 5878 1T0328DKJA0188523 328D SKID STEER LO 12/15/11 120933 328D PE5030L038795 12/13/14 3000 X PARTS 121.67 LABOR 480.00 10102001 SEGMENT TOTAL ==> 601.67 SEGMENT# 6 S 1279 NA 09/05/24 RESEAL INJECTION SYSTEM not needed, fuel system repairs were successful

SEGMENT# 7 S 1279 NA

09/05/24 10/22/24

REPLACE TURBO

raised cab and removed muffler

disconnected turbo hoses and removed hardware

removed failed turbo and installed new turbo using new

gaskets and hardware

reconnected hoses

replaced cracked exhaust pipe, could cause major fire

reinstalled muffler

drained engine oil and replaced filter

refilled engine oil and operated unit - 5W40

unit operated correctly now and topped up oil

unit operated correctly	now and copped up oil			
ENV06	OIL ENVIRO FEE	14	.06	.84
ENV50	ENVIRO CHARGE	1	.55	.55
RE30241	CLAMP, EXHAUST	1	117.37	117.37
RE519626	OIL FILTER	1	23.22	23.22
RE532722	Turbocharger	1	1534.24	1534.24
R515197	GASKET	1	3.56	3.56
R516662	SCREW	4	9.24	36.96
R524238	GASKET	1	7.45	7.45
TY22462	CLAMP	2	1.41	2.82
TY27742L	5W40 SYN BULK	14	11.36	159.04
		CONT	FINUED ON PAGE 06	

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120933	328D SKID STEER LO	5878	1T0328DKJA01		12/15/11				
120933	328D		PE5030L03879		12/13/14		000 X		
T244875		Exhaust	Pipe	1	999.50				999.50
					PARTS				2885.55
1010000				a=a	LABOR				640.00
10102001	L			SEGMENT	r TOTAL==>	•			3525.55
CLEAN FU removed drained reinstal refilled	8 S 1279 NA JEL TANK *** AS PER CUS skid plate fuel tank and flushed lled drain plug fuel tank to full and area where fuel was dra	TOMER*** added fi	4 11/13/24	er					
					LABOR				240.00
10102001	L			SEGMENT	r TOTAL==>	•			240.00
SEGMENT#	9 5 1279 NA	09/05/24	4 11/14/24						
RESEAL (OIL PAN				14.0	0	14.00		
customer drained removed	il pan leaking after of approved engine remov coolant and engine oil grill and fan ected and removed cooli	al for re	eseal	leted					
~_~~~	JULIA ALIA I DINOVCA COOLI.	Pacital	5 ~						

A SERVICE CHARGE ON OVERDUE ACCOUNTS AT THE RATE OF 2 % PER MONTH (24 % PER ANNUM). STORAGE FEES WILL BE CHARGED AFTER 30 DAYS.

removed HVAC system and muffler

removed engine and removed oil pan

fastened engine with engine mounts

resealed oil pan and reinstalled replaced loose dipstick and tube

disconnected wiring and hoses from engine

reinstalled and connected engine to pump

cleaned gasket material form oil pan and block

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SERVICE INVOICE

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	SKID STEER LO	5878	1T0328DKJA	.0188523	12/15/11		
120933 328	BD		PE5030L038	795	12/13/14	3000 X	
reassembled mad	hine in reverse	order					
refilled coolar	nt and engine oi	1					
started unit an							
topped up fluid	ls						
confirmed leaks	did not persis	t					
unit operates o	correctly						
	d plat and side						
-	d is bent and d	oes not	fit correct	ly			
ENV06		OIL ENV	IRO FEE	13	.06		.78
RE541534		DIPSTIC	ĽK	1	138.14		138.14
R44302		TIE STR	AP	10	.44		4.40
R531938		Dipstic	k Tube	1	34.12		34.12
TY26576		COOL-GA	RD II	2	58.32		116.64
TY27742L		5W40 SY	N BULK	13	11.36		147.68
03M7185		BOLT		1	.65		.65
14M7396		NUT		1	1.65		1.65
24H1122		STEEL W	IASH	1	.95		.95
30509		SEALANT	5900	1	66.43		66.43
65128		HOSE 3/	'8	2	3.56		7.12
					PARTS		518.56
					LABOR		2240.00
10102001				SEGMENT	TOTAL==>		2758.56
SEGMENT#10 A 999	99 NA	09/05/2	4 11/22/24				
TRUCKING							
DELIVERY OF SKI	D STEER \$200.00						
LEE TRUCKING		LEE TRU	CKING	1	200.00		200.00
					PARTS		200.00
10102001				SEGMENT	TOTAL==>		200.00
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***** WORK ORDER TOTALS ******

PARTS 7784.43

LABOR 6480.00

Fuel 165.00

Shop Supplies 250.00

SUB TOTAL==> 14679.43

GST #70762 9879 RT0001 733.99

CUSTOMER TOTAL 15413.42

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1719366 Alberta Ltd. RR 2 Site 2 Box 7, Millet AB, T0C 1Z0 780-387-5730 www.e3quality.ca

GST # 832686042

Invoice Number:	2023-12-1023	Invoice Date:	5-Nov-24
Customer Name:	U of A - Dairy Div	Equipment:	JD 328D Skidsteer
	F83 Agri-Food Discovery Pl	Unit Hours:	5858 hrs
	6020-118 ST Edmonton, AB	Serial Number:	
	T6G2E1		

	Labour				
Date	Activity	Hours	Rate	Cost	
	Shop Rate	16.5	\$ 110.00	\$1,815.00	
	Service Call		\$ 135.00	\$0.00	
	Travel Per Km		\$ 3.00	\$0.00	
	Weekend Call out fee - Per Call (Winter Hours)		\$ 100.00	\$0.00	
	Rush Part Pick Up		\$ 50.00	\$0.00	
		Tota	al Labour Cost	\$1,815.00	

	TI	nird Party Expense		
Date	Activity	Hours	Rate	Cost
				\$0.00
				\$0.00
				\$0.00
			Total Cost	\$0.00

	Parts a	nd Materials		
	Description	Quantity	Unit Cost	Cost
91243	Starter	1	\$239.09	\$239.09
shop	0W40 Engine oil	14	\$13.06	\$182.84
shop	Diesel Fuel	115	\$1.12	\$128.80
shop	75W90	36	\$16.36	\$588.96
shop	Electrical connectors	1	\$36.35	\$36.35
	Shop Consumables		8%	\$145.20
		Total Part	s & Materials	\$1,321.24

Payment accepted by, debit, cheque, Visa, Mastercard and EFT All payments made with a credit card will have 3% added Please make cheques out to 1719366 AB Ltd E-Transfers can be sent to etlarsen@xplornet.com Contact Terri Larsen @ 780-387-5730 for more information *All invoices past 30 days are subject to finance charges* Thank you for your business!

Subtotal GST Total \$3,136.24 \$156.81 \$3,293.05

	E3 Quality Mechanical Work Order Action Notes
Diagnose:	
	unit would crank over slow- diag bad starter - starter was replaced
	drained all fluids and fuel as well as removed all filters
	cleaned out all dirt around fuel tank to find bolts holding fuel tanks
	diagnosed how to remove fuel tank, but engine would need to be pulled
	decided to create transfer pump to suck out fuel from tank
	removed chain case covers, clean magnets, cleaned cover and re-siliconed gasket
	torqued to spec
	flushed out fuel tank (with 15L diesel)
	filled right side of chain case
	removed tail light, broken ground cable and hook for hood latch
	fill left gear case
	changed all filters and topped oil
	changed broken tail light and installed new battery cable
	blew out rad
	installed side panels, secured cab, ran unit and test drove
	unit died after 2 minutes due to fuel restriction, went through all fuel lines, none were blocked
	fill low fuel tank, checked filter and all good
	new secondary fuel pump not getting fuel so blew back supply and that unblocked the line
	took the float out and looked into tank and found rubber latex glove causing issues
	removed glove, all ran good
	Client came to pick up unit - unit would not start
	part 2 for further details
	Thank you for supporting local, we look forward to working with you again!

I hereby authorize the repair work hereinafter set forth to be done along with the necessary material and agree that you are not responsible for loss or damage to equipment or articles left in equipment in case of fire, theft or any other cause beyond your control or for any delays caused by unavailability of parts or delays in parts by the supplier or transporter. I hereby grant you and/or your employees permission to operate the equipment herein described on streets, highway or elsewhere for the purpose of testing and/or inspection. An express mechanics lien is hereby acknowledged on above vehicle to secure the amount of repairs thereto. I understand that I have the right to know before authorizing my repairs what the repairs to my equipment will be and what their cost will be. You need not obtain approval from me prior to performing repairs what the repairs will be or their cost if the total amount for such repairs does not exceed authorized



1719366 Alberta Ltd. RR 2 Site 2 Box 7, Millet AB, TOC 1Z0 780-387-5730 <u>www.e3quality.ca</u>

GST # 832686042

Invoice Number:	2023-12-1023 PART B	Invoice Date:	5-Nov-24
Customer Name:	U of A - Dairy Div	Equipment:	JD 328D Skidsteer
	F83 Agri-Food Discovery Pl	Unit Hours:	5858 hrs
	6020-118 ST Edmonton, AB	Serial Number:	
	T6G2E1		

	Labour				
Date	Activity	Hours		Rate	Cost
	Shop Rate	137	\$	110.00	\$15,070.00
	Service Call		\$	135.00	\$0.00
	Travel Per Km		\$	3.00	\$0.00
	Weekend Call out fee - Per Call (Winter Hours)		\$	100.00	\$0.00
	Rush Part Pick Up		\$	50.00	\$0.00
		Tota	al I a	bour Cost	\$15,070,00

	Th	ird Party Expense		
Date	Activity	Hours	Rate	Cost
				\$0.00
				\$0.00
				\$0.00
		-	Total Cost	\$0.00

	Parts and Materials			
	Description	Quantity	Unit Cost	Cost
41518	filter, seal kit, water pump, gaskets, belt tensioner, coupling, orings, washers	1	\$12,384.23	\$12,384.23
39888	filters, tail lamp, battery cable,	1	\$600.60	\$600.60
44311	bearing kit, screw ,gasket, coupling	1	\$491.37	\$491.37
72230	battery	1	\$242.70	\$242.70
40527	connectors	1	\$14.47	\$14.47
37696	head clean and resurface	1	\$1,312.66	\$1,312.66
46764	shim, screw, washer, gaskets	1	\$2,272.44	\$2,272.44
46334	returned gasket and coupling - not required	1	-\$208.44	-\$208.44
35507	JD service call - set timing of Cam and crank with specialty tool	1	\$906.25	\$906.25
46771	sleeve	1	\$129.57	\$129.57
30002	2 pails of 10W30	1	\$289.93	\$289.93
531665	hyd hose assy	1	\$74.45	\$74.45
	Shop Consumables		0%	\$0.00
		Total Part	s & Materials	\$18,510.22

Payment accepted by, debit, cheque, Visa, Mastercard and EFT All payments made with a credit card will have 3% added Please make cheques out to 1719366 AB Ltd

E-Transfers can be sent to etlarsen@xplornet.com Contact Terri Larsen @ 780-387-5730 for more information *All invoices past 30 days are subject to finance charges*

Thank you for your business!

Subtotal GST Total \$33,580.22 \$1,679.01 \$35,259.23

	E3 Quality Mechanical Work Order Action Notes
Diagnose:	
	Client came to pick up unit - unit would not start only crank no start pulled back into shop
	diagnoses required - Timing to be a concern due to use of either used by client
	talked to client about removing and disassembling engine for further diagnoses
	tore down unit to remove engine from machine, removed all elec. Hyds and pumps from unit
	removed cooling pack from rear of machine to be able to remove engine, removed engine
	disassembly of engine front timing cover
	strip cylinder head noticed that valves had contacted pistons and load up for transport to head shop
	completed estimate for customer and received go-a-head to repair bare minimum for unit to run
	mount engine on stand and clean/check all engine components
	continue to clean, inspect and rebuild engine
	start prep work for reassembly
	did not replace any pistons, got head back, installed head with new gaskets, installed new injectors and pumping units. Found friction washer for camgear failed, which caused engine to drop out of time, installed new friction washer and new bolt.
	Had to have JD dealer out to set timing due to requirement of special tools. Finished reassembly of
	engine, all new gaskets
	drain fuel and hydraulic tanks in order to clean area that tank sits in - required in order for tank to be
	strapped into place properly
	clean bolts on engine components, finish cleaning tub and reinstall hyd and fuel tanks
	Installed engine back into unit, installed hyd pumps and all electrical that was removed, installed cooling
	packs.
	filled unit with 10W30 break-in and coolant
	fired unit up, unit runs and sounds good
	test ran unit around yard, inspected for leaks
	all sounds and looks good.
	recommended to client to NOT use ether on unit, as this can potentially cause unit to jump out of time.
	Thank you for supporting local, we look forward to working with you again!

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