

A08-3

SG 421



Greg's Repair
2900 7 Avenue North
Unit 10
Lethbridge, AB T1H 5C6
(403) 315-0495
info@gregsrepair.com
www.gregsrepair.com

Invoice #12285

Created: 3/20/2023 03:52 PM MDT
Invoiced: 3/24/2023 08:25 AM MDT
Payment Term: On Receipt
Service Writer: Ryan Morrison

Rosco's Tree Service
Mobile: (403) 593-0816

20xx Verneer SE292 STUMP GRINDER
Kilometers: No vehicle odometer

SMALL ENG. - PARTS - OXYGEN SENSOR /// INSTALL NEW O2 SENSOR

TECH NOTES:

parts received
changed O2 sensor
secured into place
routed wiring.
started unit
fired right up
running good.
tested various throttle speeds
let run outside for about 15-20 minute
seems to be okay.
will retest in the morning to ensure repair.
ran again this morning
engine is working great.
okay to go.



TAP OR CLICK THIS BOX TO OPEN DETAILS

Description	Price	QTY	HRS	Subtotal
1 labour			0.6	\$69.00
2 KOHLER 25 418 07 SENSOR, OXYGEN (LESS CLIP)	\$198.75	1		\$198.75
3 SHIPPING	\$17.95	1		\$17.95
			GST (3.5%): \$10.00	Total: \$295.70

Thank you for your business. The work is complete and your payment is due upon pickup of the vehicle. Mechanics liens may be placed on vehicles until repairs are paid for in full. Please contact us promptly if you have any questions about anything we did.

Signature _____

Parts	\$216.70
Labor	\$69.00
Subtotal	\$285.70
GST	\$10.00
PST	\$0.00
HST	\$0.00
Grand Total	\$295.70
Paid To Date	(\$295.70)
REMAINING BALANCE \$0.00	

Payments		
3/24/2023	Credit card ending in 7110	\$295.70

56421



Greg's Repair
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Invoice #12080

Created: 2/13/2023 08:00 AM MST
Invoiced: 2/15/2023 09:13 AM MST
Payment Term: On Receipt
Service Writer: Ryan Morrison

2016

Roscco's Tree Service
Mobile: (403) 593-0816

20xx Verneer SE292 STUMP GRINDER
Kilometers: No vehicle odometer

Customer Comments

RUNS FOR A BIT THEN UNDER LOAD IT WILL - VERNIEER SE292 STUMP GRINDER - 26HP KOHLER EFI - SOUND LIKE IT IS MISSING - STARTS SMOKING A LITTLE BIT-BLACK SMOKE

SM ENG REPAIR - RUNS ROUGH UNDER LOAD

TECH NOTES:

Run engine // try to verify concern
connect scan tool
monitor all sensors and outputs during warm up cycle
throttle position sweep test
--good no codes in memory
--baro pressure reads 13psi
good engine running map reads 4.2psi
--good
o2 sensor readings warm up as they should
once closed loop was attained
there was a long duration that the o2 would not drive come off of lean
block learn was adding fuel and the o2 voltage was not coming up past lambda
With no symptoms acting up and sensors reading good
---recommend to replace the o2 sensor for intermittent concern that we are not able to verify
this is the least expensive and most logical repair for this symptom

-----however failing ignition coil could produce a similar symptom as well
so we will need to let customer try this after the o2 sensor
and concern may or may not come back

There is also a concern that when the boom is up and the engine is tilted up high
---the engine may draw fuel off the top of the high pressure fuel pump
something for the customer to watch for noting the angle of the engine when it is acting up

TAP OR CLICK THIS BOX TO OPEN DETAILS

Description	Price	QTY	Subtotal
1 SMLA-Small Engine Repair - Labour			\$86.40
2 GROTE 82-2106 TOGGLE SWITCH BOOT Note: TOGGLE SWITCH BOOT	\$11.00	2	\$22.00
EPA (1.5%): \$0.33 Shop Supplies (2%): \$1.73 GST (5%): \$5.52			Total: \$115.98



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Parts	\$22.00
Labor	\$86.40
Subtotal	\$108.40
Shop Supplies	\$1.73
EPA	\$0.33
GST	\$5.52
PST	\$0.00
HST	\$0.00
Grand Total	\$115.98
Paid To Date	(\$115.98)
REMAINING BALANCE \$0.00	

Payments		
2/15/2023	Credit card ending in 7110	\$115.98