



**CITY OF NOVI CITY COUNCIL
JULY 26, 2021**

SUBJECT: Approval to purchase a 2021 Ventrac Mower with accessories from Weingartz Supply Co. through the Sourcewell cooperative purchasing contract, in the amount of \$42,505.05

SUBMITTING DEPARTMENT: Department of Public Works, Fleet Division

EXPENDITURE REQUIRED	\$ 42,505.05
AMOUNT BUDGETED	\$ 46,280
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	101-442.30-982.066

BACKGROUND INFORMATION:

The 2021 Ventrac Mower is an equipment replacement for the existing 1999 2WD John Deere mower used by the DPW Field Operations Division along roadsides and boardwalks. This machine provides a better, more efficient, and safer brush clearing than the existing asset which is a fine cut machine designed for manicured mowing.

The Ventrac can be used to push back vegetation, tree limbs, phragmites, and grass along pathways with inclines. The machine also has the ability to traverse harsh terrain and can navigate slopes up to 30 degrees. Overall, the Ventrac provides greater stability and versatility to help maintain boardwalks and pathways .

RECOMMENDED ACTION: Approval to purchase a 2021 Ventrac Mower with accessories from Weingartz Supply Co. through the Sourcewell cooperative purchasing contract, in the amount of \$42,505.05



Pricing Quote

Quote #: 55108-1001

Date Quoted: May 25, 2021
Quote Expires: August 25, 2021

Prepared For:

Mike Rhatigan
City of Novi
45175 West 10 Mile
Novi, MI 48375

Prepared By:

Weingartz Supply Co - Farmington Hills
Tom A. Hamilton
39050 Grand River Ave
Farmington Hills, MI 48335
Phone: 248-893-5883

Thank you for the opportunity to quote the following Ventrac product(s) for your review. I have added the items that we feel would best serve your needs. Please feel free to contact me with any questions.

QTY	Model #	Description	MSRP	Sourcewell	Total
4	47.0115	Accessory: ADDITIONAL WEIGHTS Weight, Suitcase - 42 LBS w/Box	98.00	83.60	334.40
1	70.4140	Accessory: DIGITAL SLOPE GAUGE Kit, Slope Indicator	365.00	312.40	312.40
1	70.4067	Accessory: DUAL WHEEL KIT Kit, Duals Field Trax	1,325.00	1,113.20	1,113.20
1	15.0042-05	TIRE RESEAL Reseal, 5 Gallon Pail	117.25	117.25	117.25
1	4500Z (39.51208)	Ventrac Tractor: KN, 4500Z Kubota WG972-GL <i>Included Standard: Weight Transfer, SDLA Hand Controls, 4 Rear Weights, Front Fenders, Foot Pegs</i>	24,610.00	21,076.00	21,076.00
1	70.4154-99	Accessory: Kit, Suspension Seat 4500	565.00	484.00	484.00
1	HQ680 (39.55104)	Attachment: MOWERS - TOUGH CUT HQ, HQ680 Mower, Tough Cut	3,510.00	3,005.20	3,005.20
1	70.8213	Accessory: SWIVEL WHEEL KIT Kit, HQ680 Swivel Wheel	645.00	545.60	545.60
1	MA900 (39.55170)	Attachment: MOWERS - BOOM MA, MA900 Boom Mower	16,475.00	14,498.00	14,498.00
1	70.4104	Accessory: 12-VOLT SWITCH/CONTROL-FRONT Kit, 12V Front 4500	290.00	255.20	255.20
1	70.4109	Accessory: HYDRAULIC FRONT DUAL VALVE, KIT FOR 4500 Kit, Dual Front HYD Aux 4500	455.00	400.40	400.40
1	23.0111-7	Kit, Spool Float Hyd. Valve	117.00	117.00	117.00
1	70.4137	Accessory: MID-WEIGHT BAR KIT Kit, Weight Bar Mid 4500	280.00	246.40	246.40

TOTAL USD \$ 42,505.05

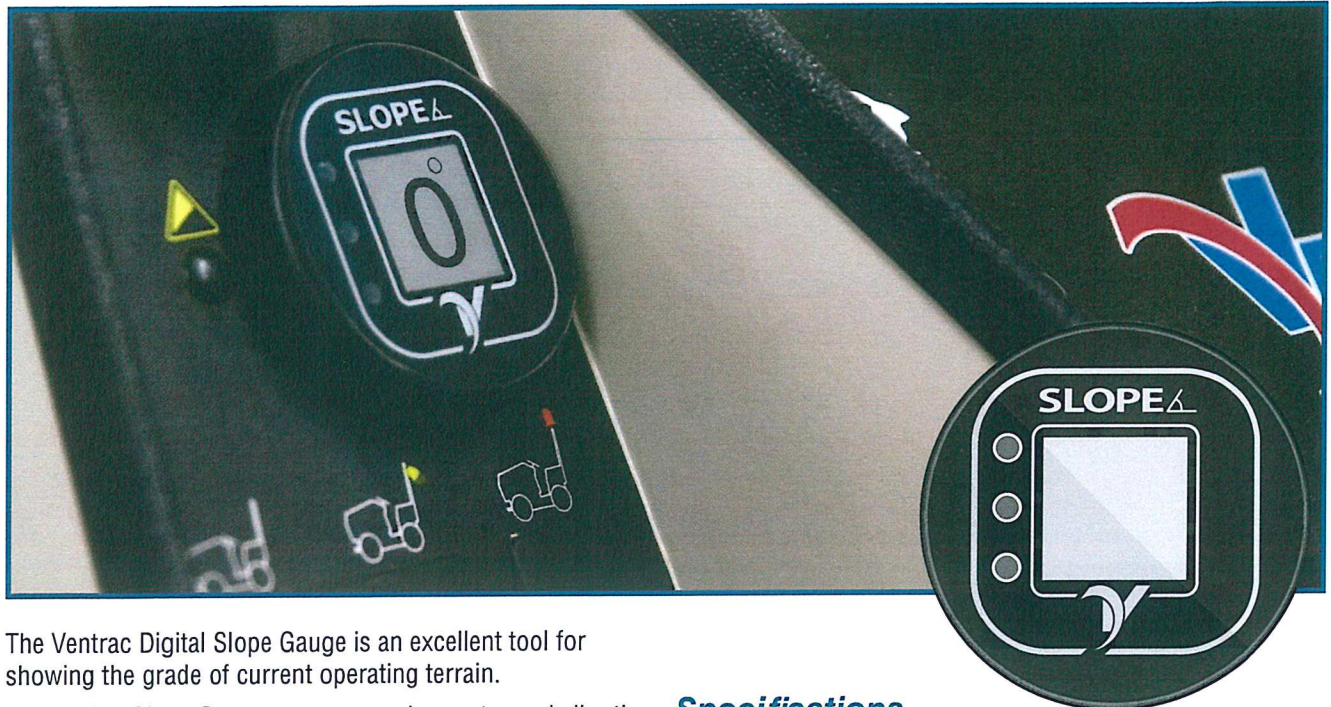


Prepared For:

Tom Constantine
City of Novi
45175 West 10 Mile
Novi, MI 48375

Sold & Serviced by:

Weingartz Supply Co - Farmington Hills
Tom A. Hamilton
39050 Grand River Ave
Farmington Hills, MI 48335
Phone: 248-893-5883



The Ventrac Digital Slope Gauge is an excellent tool for showing the grade of current operating terrain.

This Digital Slope Gauge uses an accelerometer and vibration filters to provide near real-time slope information. Its highly visible LCD screen allows the operator to safely view visuals while operating in direct sunlight.

When enabled, the Digital Slope Gauge produces an audible beeping alarm to alert operators of slopes greater than the audible set-point.

Choose any one of the five display screen formats to view your slope grade information while in operation.

The Digital Slope Gauge easily mounts on all Ventrac 4500 tractors with the supplied instructions and wire harness.

Note: Refer to Tractor Operator's manual for maximum angle of operation.

Product Benefits

- Transflective LCD Screen
- Gauge reacts quickly to changes in slope
- Independent Set-points for:
 - Visual Alerts (warning flashing on screen)
 - Audible Alarms (with mute option)
- Gauge is fully self-contained for faster and easier installation, no external module needed

Specifications

Stock Code	70.4140
Screen Size	1.28"
Screen Type	HR-TFT Transreflective LCD
Input	1 Optical input
Operational Voltage	8V to 28V
Current Draw	500mA (0.5A) max
Operational Temperature	-4°F to 158°F
Water Resistance	IP67

All specifications subject to change without notice or obligation

Menu Options:

- 5 Different slope display screens
- Audible alarm (on / mute options)
- Set-points for audible alarm: 5, 10, 15, 20, 25, 30 degrees
- Set-points for visual alarm: 5, 10, 15, 20, 25, 30 degrees
- Factory Default Reset (Default values are 20 degrees for both audible and visual alarms)
- Calibration

Additional Notes

- Unit **must be calibrated** after installation, before using.
- Using this slope gauge does NOT allow the tractor to be operated on slopes that are greater than normal ratings.

TRACTOR COMPATIBILITY KEY: 3400 4500

500 Venture Drive • Orrville, OH 44667 • 1.866.836.8722

Fax: 330.683.0000 • www.ventrac.com • info@ventrac.com



Shown with Turf Tires

SPECIFICATIONS

Stock Code

All Terrain	70.4067 (1 kit per tractor)
Turf	70.4068 (1 kit per tractor)
Bar	70.4069 (1 kit per tractor)
Weight	80 lbs (36.25 kg) (per axle)
Additional Tractor Width	24 inches (12 inches/tire) (61 cm)

All specifications subject to change without notice or obligation

Note:

(A) Do NOT use dual wheels when using the Ventrac VERSA-Loader.

(B) Engine manufacturers' maximum angle of operation is 25° for continuous use (all directions) and 30° intermittent use*. The 4500P Kawasaki DFI is rated for 30° continuous use.

(C) Do NOT use with Wheel Extensions

* Intermittent use is up to 10 minutes on the slope, then return to level ground before returning to the slope.

Dual Wheels are available for the 4000 series tractors. They are designed to increase stability, traction, and safety on slopes. Dual wheels are also great for reduction of soil compaction on delicate ground. Once the dual hubs have been installed on each wheel, the duals can be quickly mounted and dismantled.*

Duals are recommended for sandy soils or where a broad distribution of tractor weight is desired, including when driving sideways on slopes greater than 20 degrees (not to exceed 30 degrees).

Duals are only one of numerous considerations for safety on slopes; speed, terrain, irregularities, and stopping the unit are other serious factors to consider for safe operation of the tractor.

*Recommended tire pressure for dual wheels can be found in the 4500 operator manual and also on the sticker inside of the hood



Shown with Standard Tires

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STANDARD FEATURES

- Enclosed Muffler
- Pre-Wired Plug & Play Wiring Harness
- Premium Comfort Seat
- Advanced Electronic Instrument Panel
- 6 Function Warning Gauge & Alarm
- Conveniently Located PTO Belt Tensioner
- On-board Diagnostic System
- Sealed Electrical System
- Thermostatically Controlled Oil Cooler
- Battery Disconnect Switch with Circuit Breaker
- Automotive Style Parking Brake
- Universal PTO Switch
- S.D.L.A. Operator Controls
- Weight Transfer System*

* Optional on 4500K, standard on other 4500 Models

Optional Accessories:

- Turf or Bar Tires
- Category 1 3-Point Hitch
- Cold Weather Cab
- Additional Lighting & Signaling Packages
- Electrical Power Outlets
- Digital Slope Indicator
- Dual Wheel or Wheel Extensions for Slope

Visit www.ventrac.com/accessories for full list.

The Ventrac 4500 tractor was built with you in mind. From the advanced electrical system, redesigned frame, more safety and comfort features; the 4500 offers the reliable performance, astounding versatility and comfortable handling you have come to expect.

Like all Ventrac tractors, the 4500 utilizes All Wheel Drive and an articulating chassis with a low center of gravity to provide superior traction, braking, stability, and security on tough terrain and slopes without disturbing turf when turning.

Over 30 Ventrac Mount Attachments

Choose from over 30 professional grade Ventrac Mount attachments to transform your Ventrac into a productivity powerhouse. This incredibly rugged and dependable machine is a wise business investment for golf courses, schools and universities, parks, street maintenance departments, commercial mowing services, contractors, wineries, farms, property management associations, estate owners and anyone needing one machine to do it all.



TRACTOR COMPATIBILITY KEY:



SPECIFICATIONS

Model Comparison	4500K VANGUARD Big Block	4500P KAWASAKI DFI	4500Y KUBOTA Diesel	4500Z KUBOTA Bi-Fuel Ready
Stock Codes	39.51130	39.51207	39.51209	39.51208
Accessory Kit: Front fenders, foot pegs, 4 rear weights, weight transfer	Optional	Standard	Standard	Standard
Engines				
Engine	Vanguard M54	Kawasaki FD851D DFI	Kubota D902	Kubota WG972-GL
Max Operating Speed	3600 rpm	3600 rpm	3600 rpm	3600 rpm
Horsepower	31	31	25	32.5
Peak Torque	47 ft lb	47 ft lb	42 ft lb	51 ft lb
Displacement	896cc	824cc	898cc	962cc
Cylinders	2	2	3	3
Engine Oil	Ventrac Full Synthetic 10W30			
Cooling	Air	Liquid	Liquid	Liquid
Fuel Type	Gasoline	Gasoline	Diesel	Gasoline, Propane [^]
Fuel Capacity	6 gal	6 gal	6 gal	6 gal 2 x 33lb lp tanks [^]
Fuel Economy ^{^^}	1.6 gal/hr	1.2 gal/hr	1.1 gal/hr	1.5 gal/hr (gas) 8.6 lb/hr (lp) [^]
Slope Rating (continuous/intermittent)	25°/30°	30°/30°	20°/30°	20°/30°
Alternator	50 Amp	30 Amp	60 Amp	60 Amp
Dimensions				
Weight with standard hitch	1340 lb (610 kg)	1575 lb (715 kg)	1655 lb (750 kg)	1655 lb (750 kg)
Weight with accessories kit	1565 lb (710 kg)	N/A	N/A	N/A
Weight with 3-point hitch	1660 lb (775 kg) w/ accr kit	1670 lb (760 kg)	1750 lb (795 kg)	1750 lb (795 kg)
Length with standard hitch (ROPS up)			81.5 inches (207 cm)	
Length with 3-point hitch			92 inches (234 cm)	
Length with propane kit	N/A	N/A	N/A	99 inches (252 cm)
Width			48.5 inches (123 cm)	
Width with wheel extensions			54.5 inches (138.5 cm)	
Width with duals			73 inches (185.5 cm)	
Wheelbase (front axle to rear axle)			45 inches (114 cm)	
Height (ROPS up)			68 inches (173 cm)	
Height (ROPS down)			54 inches (137 cm)	
Turning Radius (single tires, standard position)			39 inches (99 cm)	
Turning Radius (position 2)			54 inches (137 cm)	
Turning Radius (position 3)			68 inches (173 cm)	
Oscillation amount (@ wheel)			7.5 inches (19 cm)	
Ground Clearance			5 inches (13 cm)	

[^] If equipped with optional Propane Kit for the 4500Z ^{^^} Fuel Economy tested with HM602 mower for comparison purposes. Application conditions & attachment will affect fuel economy.

All specifications subject to change without notice or obligation



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4500 Tractor

TRACTOR COMPATIBILITY KEY:

3400

4500

SPECIFICATIONS (Continued)

APPLIES TO ALL 4500 TRACTORS

Electrical

Battery	475 CCA (Group 51R)
Voltage	12 volts
Battery Disconnect	Standard, with 150A System Circuit Breaker
Fuses	Sealed, Mini Fuse and J-Case styles

Drivetrain

Hydraulic Pump	Sauer Danfoss 15 series pump
Pump Drive	Direct Drive (Double U-Joint Drive-shaft)
Hydraulic Motors	(2) Sauer Danfoss 15 series motors
Transaxles	Peerless 2600 series
Axles	Peerless 40mm (forged) with integrated forged hub
Hydraulic Oil Cooler	Aluminum w/ Thermostatically controlled Electric Fan
Hydraulic Oil Filter (Suction)	25 micron
Hydraulic Oil Filter (Pressurized)	10 micron

Hitch and PTO

Front Hitch	Ventrac Mount System
Electric PTO clutch with Brake	Ogura GT3.5 (250 ft lb)
Rear Hitch	2 inches Receiver
3-Point Hitch	Optional Category 1 3-Point Hitch

Tires

Standard (All Terrain)	22x12-8
Optional Turf	22x11-10
Optional Bar	21x11-8

Travel Speed (F/R)

Low Range	5 mph forward / 4 mph reverse
High Range	10 mph forward / 8 mph reverse

Instruments, Gauges, and Alarm

Gauges	Tachometer, Speedometer, Hour Meter, Engine Temperature (liquid cooled engines only), Fuel Level, Volt Meter
Indicator Lights	Parking Brake, Engine High-Temp [^] , Hydraulic Oil High Temp [^] , Low Voltage [^] , Low Oil Pressure [^]
[^] Activates Audible Alarm	
Switches	Key, PTO, and Lights

Lights

Head Lights	(2) 55W Halogen Lights
Tail Lights	(2) Red LED Lights

Controls

Forward Reverse	S.D.L.A. (Speed, Direction, Lift, and Auxiliary) Handle; Optional Foot Pedal
Attachment Lift	S.D.L.A. (Primary Handle)
Auxiliary Hydraulics	S.D.L.A. (Secondary Handle)
Throttle	Dash Mounted
Front Hitch Lock	Column Mounted (Accessible from Seat)
PTO Belt Tensioner	Front Mounted, Automatic Tension Controlled
Weight Transfer	5 position
High/Low Range	Single Lever, Column Mounted
3 Pt Controls (Optional)	Lift + 2 sets of Auxiliaries
Steering	Power Steering

Other Features

Tool Box	Standard
Cup Holder	Standard
Seat	Deluxe High Back Seat (arm rests and suspension seat optional)

ROPS

Folding ROPS	Standard
Heavy Duty Off-Road Seat Belt	Standard

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4500 Tractor

TRACTOR COMPATIBILITY KEY:



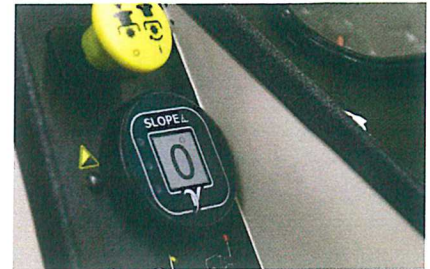
SLOPE SPECIFICATIONS

Maximum Slope Rating (any direction)



Max Slope Rating
in any direction

	Single Tires	Wheel Extensions	Dual Wheels
4500*	20° (36%)	25° (47%)	30° (58%)
4500Z with Propane	15° (27%)	20° (36%)	25° (47%)
4500 with Cab		10° (18%)	
4500 with Spreader		10° (18%)	



Digital Slope Gauge
Recommended for operation on slopes.

*Attachments, accessories, and tire configuration may reduce the 4500 power unit's maximum angle of operation. Refer to applicable operator manuals for maximum angle of operation of equipment.

ENGINE RATINGS

Model #	4500K	4500P	4500Y	4500Z
Engine	B&S Vanguard Model 54	Kawasaki FD851D	Kubota D902	Kubota WG972-GL
Fuel	Gas	Gas (DFI)	Diesel	Gas Propane**
Max Slope Intermittent Use***	30° (58%)^	30° (58%)	30° (58%)^	30° (58%)^ 25° (47%)^
Max Slope Continuous Use***	25° (47%)	30° (58%)	20° (36%)	20° (36%) 20° (36%)

** With Optional Propane Kit for 4500Z

*** For slope operation over 20°, Wheel Extensions are required for up to 25° or Dual Wheels are required for up to 30°

Intermittent Use Defined

^ The engine may operate between 20° and 30° for up to 10 minutes. If 10 minutes is reached, the engine must be returned to 20° or less to assure proper oil lubrication. After returning to 20° or less, the intermittent cycle can be repeated. The 4500P Kawasaki DFI engine is rated for 30° continuous operation and does not have this requirement.

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HQ680

TOUGH CUT



- Connects To Front Of Tractor
- Cut Material Before Driving Over
- Flip Up Deck
- Excellent Visibility
- Heavy Duty Deck Construction



TOUGH CUT

Model	HQ680
Stock Code	39.55104
Deck Style	Flexible Debris Shield
Width of Cut	68 inches (173 cm)
Number of Blades/Type	3 blades, 5/16 x 2½ x 23 inches (79mm x 6.35cm x 58cm)
Cutting Heights (Standard)	3, 3-5/8, 4¼ inches
Cutting Height Range with Optional Swivel Wheel Kit	3½ - 7 inches (89 to 178 mm) in ½ inch (12.7 mm) increments
Deck Construction	Multi Gauge, 5/16 inch (7.9 mm) at spindle mount
Spindles/Pulleys	Field Serviceable w/ Top Grease Fittings

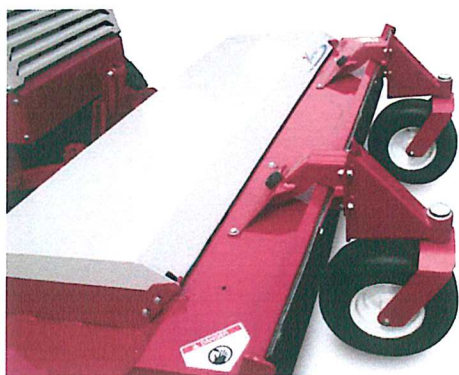
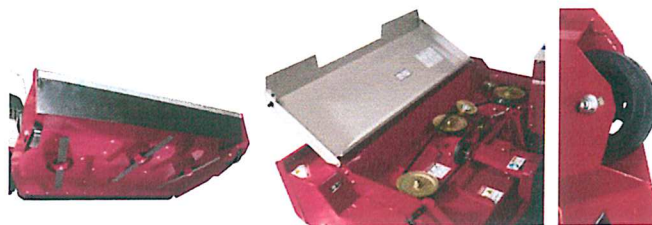
Optional Accessory

Swivel Wheel Kit	70.8213
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Dimensions

Length	45 inches (114 cm)
Width	69 inches (175 cm)
Height	18 inches (46 cm)
Weight	360 lbs (163 kg)
Shipping Weight	449 lbs (204 kg)
Shipping Dimensions (LWH)	73 x 46½ x 19 inches (185 x 118 x 48 cm)

All specifications subject to change without notice or obligation



STANDARD FEATURES

- Rear Adjustment for Deck Pitch
- Heavy Duty Blades
- Tilt-Up Deck
- Ventrac Mount System

OPTIONAL ACCESSORIES

- Swivel Wheel Kit

TRACTOR COMPATIBILITY KEY:



The HQ680 Tough Cut is designed for mowing high grass, thick weeds, and heavy brush. A large baffled front opening directs material into the deck and helps hinder debris from escaping.

Three heavy-duty blades counter rotate to cut and deposit waste evenly without windrowing. Capable of tackling saplings up to one inch in diameter, the Tough Cut makes short work out of overgrown thickets.

The Tough Cut can be set to three cutting heights, 3, 3½, and 4¼ inches. The optional swivel wheel kit provides eight different cutting heights ranging from 3½ to 7 inches.

The HQ680 can be tilted up to access the underside of the mower deck for cleaning, maintenance, or storage. Additionally, easy servicing of belts and pulleys is accessible by the hinged, removable cover.



VENTRAC

V-PLUS WARRANTY

All new Ventrac tractors and attachments purchased in the United States and Canada are covered by Ventrac's V-Plus Warranty, so you can purchase with confidence! Under the V-Plus, we will repair, replace, or adjust any part manufactured by Venture Products, Inc. that is defective in material and/or workmanship.

2-Year Commercial Limited Warranty

SSV/3000/4000 series tractors and attachments

- 2 years with **unlimited** hours

Engine Warranty*

Covered by engine manufacturer

- Briggs 3/LC = 2-year w/ 3rd major parts only
- Briggs V-twins = 3-year
- Kawasaki V-twins = 3-year
- Kubota 3 cylinder = 2-year or 2000 hours** with 3rd year major parts only or 3000 hours**

*Please refer to the engine manufacturer's warranty statement included in your owner's manual.

** Whichever occurs first

Exclusions

Replacement parts - limited to 90 days



Limitations and Conditions

Ventrac equipment, including defective parts, must be returned to your authorized Ventrac dealer within the warranty period. The warranty extends to the cost to repair or replace (as determined by V.P.I.) the defective part. The expense of pickup and delivery of equipment, service call drive time or any transportation expense incurred for warranty repair is the responsibility of the owner. Proof of purchase may be required. Warranty work must be completed by an authorized Ventrac dealer.

This warranty extends only to Ventrac turf equipment operated under normal conditions and properly serviced and maintained. The warranty does not cover repair of damage due to normal use, wear and tear, maintenance services, repair of damage related to abuse, neglect, accident or use of the turf equipment which is not in accordance with operating instructions in the operator's manual, or damage resulting from repair of Ventrac turf equipment by person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.