

# Guardian ULV Sprayer Tools

## Helpful tips to maintain your ULV machines

Most ULV sprayer engines are maintained using a standard 30 weight motor oil. Fuel is only good for 90 days so remember to add a fuel stabilizer if storing for long periods of non-use. Remember to have a cutting agent handy depending on the diluent of your adulticide. Teflon plumbers tape can sure up most leaky fittings. The oil in blowers & compressors should be changed every year, using OEM approved oil & grease. Refer to your state regulations regarding droplet analysis and verify compliant atomization annually. Always remember your PPE and make sure you are in a well ventilated area.

### Calibration Tools & Conversions

- 43,560 sq ft = 1 acre
- 5,280 linear ft = 1 mile
- Time to travel 1 mile @ 10 MPH = 6 minutes
- Standard ULV Swath Width = 300 feet
- Acres treated/linear mile sprayed = 36.6 acres
- 29.6 ml = 1 oz

Oz/Acre Conversions @ 10 MPH Matrix

Oz/Min@10 MPH	Oz/Acre	Oz/Mile	Gal/Hour
1	0.163934426	6	0.46875
2	0.327868852	12	0.9375
3	0.491803279	18	1.40625
4	0.655737705	24	1.875
5	0.819672131	30	2.34375
6	0.983606557	36	2.8125
7	1.147540984	42	3.28125
8	1.31147541	48	3.75
9	1.475409836	54	4.21875
10	1.639344262	60	4.6875
11	1.803278689	66	5.15625
12	1.967213115	72	5.625
13	2.131147541	78	6.09375
14	2.295081967	84	6.5625
15	2.459016393	90	7.03125
16	2.62295082	96	7.5
17	2.786885246	102	7.96875
18	2.950819672	108	8.4375

### ULV & Calibration Maintenance Schedule

#### 50 Hours of Service-Engine

- Change oil and oil filter
- Inspect air filter
- Clean engine and cooling fins
- Clean battery terminals and charge if required

#### Annual Engine Maintenance

- Drain and clean fuel tanks
- Inspect and replace fuel lines
- Grease & change oil in low pressure blowers
- Replace air filter, fuel filter, and spark plugs
- Inspect engine wiring and battery terminals

#### Pump Maintenance

- Flush organophosphates after each use
- Flush synthetic pyrethroids periodically

#### 50 Hour Pump Maintenance

- Clean chemical filters and orifices
- Inspect flush solenoids
- Verify flow rates

#### Annual Pump Maintenance

- Clean chemical tank
- Inspect and replace chemical lines if required

#### Winterization - In Cold Climates

- Drain leftover chemical & fill chemical lines with RV fluid or light oil to prevent freezing
- Remove battery and store in heated facility to increase life
- Add a winterizing fuel conditioner to fuel system

#### ADAPCO Service Team

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