

BIOGAS ENGINE OILS CUSTOMER SITE SURVEY

Date: _____

Customer/Location:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: (_____) _____ Mobile: _____

Fax: (_____) _____ E-mail: _____

Primary Contact:

Name: _____

Telephone: (_____) _____ E-mail: _____

DIGESTER SYSTEM *(If multiple digesters are in use, please complete this form for each unit)*

Installation Date/Length of time in service: _____

Digester Type: (Circle One) Plug Flow / Complete Mix / Covered Lagoon / Hybrid

Manufacturer: _____

Installer: (if different from Manufacturer) _____

Capacity: _____ (gal. / lbs / ft³) Current utilization: _____%

Feed Stock/Composition:

Please be specific- if listing manure, please specify type – Bovine/Swine/Poultry - if mixed, please specify approximate % of each component—

(example: Bovine Manure - 80% Food Waste – 20%) _____

H₂S Scrubber: _____ Yes _____ No

If Yes, Type? _____ Biological _____ Chemical

Typical H₂S concentration of influent biogas:

(Check appropriate box and fill in ppm information)

System w/o scrubber: _____ ppm

System w/ scrubber:

• From digester to scrubber: _____ ppm

• From scrubber to engine: _____ ppm

How is H₂S concentration determined: (Check applicable box(es))

Draeger Tube/Analysis

Meter/Gauge

Test Kit

Other

If 'Other', please explain: _____

Biogas Engine Oils Customer Site Survey

STATIONARY GAS ENGINE *(If multiple engines are in use, please complete this form for each unit)*

Installation Date/Length of time in service: _____

Make: _____ Model: _____ # Cyl: _____

Turbocharged: YES NO

Duty Cycle: 24 hrs per day/7 days a week

Other – Please specify: _____

Load: Engine is typically operated at _____% of its maximum rated load/capacity.

Lubrication:

- Recommended/required engine oil per OEM (Brand Name and/or physical and chemical characteristics including viscosity, sulfated ash content, Base Number, anti-wear content [zinc, phosphorous], etc.):

- Product currently used: (include copy of product data sheet if available)

- Make-up oil used: _____ gallons per day. Comments: _____

- Are you satisfied with the performance of your current engine oil?

YES NO If not, why not? _____

- Current oil drain interval: _____ hours
(If filters ARE NOT changed at drain, please list replacement frequency)

- How was current oil change interval established?

Oil condition monitoring/analysis Convenience (i.e. once/month)

Recommendation (Please specify source - i.e. oil supplier / engine mfg. / another digester user / etc.) Other: _____

- Are you currently using an oil analysis program to monitor oil condition?

YES NO If YES, please identify laboratory used:

Could we please review the most recent analyses results?

- Used oil sampling intervals: NONE At drain only Other: _____

Additional Comments:

