



# **Used Oil Business Questionnaire**

Level 0

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# Table of Contents

<b>1</b>	<b>GENERAL INFORMATION</b>	<b>1</b>
1.1	Instructions for Use	1
1.2	Specific Information	1
<b>2</b>	<b>SCOPE AND DESCRIPTION OF REQUIRED INFORMATION</b>	<b>3</b>
2.1	Used oil Availability	3
2.2	Intended Product Qualities and Market Demands	5
2.3	Existing or Intended Technology	7
<b>3</b>	<b>FINANCIAL ASPECTS</b>	<b>9</b>
<b>4</b>	<b>SITE CONDITIONS OF INTENDED LOCATION</b>	<b>10</b>
4.1	Site Elevation	10
4.2	Seismic Design	10
4.3	Soil Conditions	10
4.4	Meteorological Data	10

# 1 General Information

## 1.1 Instructions for Use

The intention of this questionnaire is to collect sufficient data from Interested Party for used oil business information. The questionnaire summarizes different types of information to allow MRD the serious evaluation of Interested Party's request. Based on these received information, MRD is only able to provide comprehensive service to potential Interested Parties.

The questionnaire should be filled in by the interested party as completely and soon as possible before any support or further activities can be undertaken or provided by MRD .

- If no data is available, insert "No Data."
- If the item is not applicable to the scope of supply, insert "NA", or strike through.

## 1.2 Specific Information

### Interested Party's and intended or existing location of Site

Indicate the Interested Party's intended or existing plant location and any other specific information as they are to appear on documentation and i.e. drawing title blocks.

- Interested Party's name
- Plant location if existing
- Project name if existing

### Correspondence

Correspondence to the Interested Party relating to this information exchange shall be directed to:

Company name: .....

Street Address: .....

Mailing Address: .....

City, State: .....

Attention: .....

Phone: .....

Fax: .....

E-mail Address: .....

Correspondence to Mineralöl-Raffinerie Dollbergen GmbH relating to this information exchange shall be directed to:

Company Name: .....  
Street Address: .....  
Mailing Address: .....  
City, State: .....  
Attention: .....  
Tel.No: .....  
Fax No: .....  
E-mail Address: .....

Correspondence Numbering:

From Interested Party to MRD: (Interested Party)- MRD –XXX – B/D  
From MRD to Interested Party: MRD – (Interested Party)– XXX – B/D  
Notes of Meeting: MRD – CN – XXX  
E-mail: MRD – EM – XXX

Numbering will be consecutive.

Notes of Meetings:

MRD will generally be responsible for summarizing “Notes of Meetings”. (CN), any discussions, decisions, etc. which occur during the meeting. The “CN” will be distributed to all attending parties.

Telephone Conversation Notes

The originating party will be responsible for summarizing in a confirming e-mail, fax or letter, any discussion, decision, etc. which occurred during the telephone conversation.

Legend:

XXX sequenz  
B/D B – without Attachments; D – with Attachments

## 2 Scope and Description of required information

### 2.1 Used oil Availability

(0) Is Interested Party already familiar with used oil collection or something like that?

NO/YES

Description:

.....  
.....  
.....

Please indicate the level of knowledge:

Good            Medium            Less            Nothing

                                                          

(1) Does there exist an infrastructure and/or organization for a stabile used oil collection & supply?

NO/YES

.....;            Quantity.....MTPM  
.....;            Quantity.....MTPM

MTPM: Metric Tons Per Month

(2) Do there exist national regulations, laws or ordinances which support used oil handling & treatment?

NO/YES

.....  
.....  
.....

(3) Does there exist programs, which financially support used oil business?

NO/YES

.....  
.....  
.....

(4) Does there exist a suitable infrastructure for used oil transport to the specified used oil facility location?

NO/YES

- Roads
- Railway
- Water Way
- Other

(5) Does there already exist a "Fleet of vehicles" for used oil collection or something like that?

NO/YES

Description:

.....  
.....  
.....

(6) Does there exist samples of available use oil which represent the expected average quality and could these samples be sent to MRD for analyzing ?

NO/YES

Size(s) of sample(s) in Liter .....

(7) Does there exist vegetable/biological oil components within the collected used oil on mineral oil basis

NO/YES

Not Known

(8) Does there exist an analysis for the expected used oil quality?

NO/YES

.....  
.....  
.....  
.....

## 2.2 Intended Product Qualities and Market Demands

(0) Is Interested Party already familiar with product quality issues recycled from used oil?

NO/YES

Description:

.....  
.....  
.....  
.....

(1) Does there already exist a potential market for products recycled from used oil?

NO/YES

.....  
.....  
.....

(2) Does there already exist a Sales Organization for products recycled from used oil?

NO/YES

.....  
.....  
.....

(3) Does there exist clear ideas regarding intended product quality issues?

NO/YES

For thermal use

Dried Used Oil ( Dewatered used oil)

Heavy fuel Oil ( removing of water and light ends HC's)

Do there exist intended product specification data?

.....  
.....  
.....

For lubricate use

Dried Used Oil ( Dewatered used oil)

Distillates and corresponding By-Products

High Quality Base Oils

Do there exist intended product specification data?

.....

.....

.....

## 2.3 Existing or Intended Technology

(0) Is Interested Party already familiar with used oil technologies ?

NO/YES

Describe: .....

.....

.....

.....

(1) Do there already exist used oil treating facilities or process plants?

NO/YES

Plant description	Type	Capacity MTPH	Name of Main product
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

(2) Do there exist clear ideas for used oil technology to be applied ?

NO/YES

Plant description	Type	Capacity MTPH	Name of Main product
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

MRD's comprehensive experiences in used oil technologies :

- ✓ Sample station facilities and handling of used oil input
- ✓ Used oil reception facilities and handling (railroad, road, water way)
- ✓ Used oil storage facilities and handling
- ✓ Filtration technology for sediment separation
- ✓ Used oil dewatering technology ( i.e. Basic distillation, Pressure dewatering )
- ✓ Vacuum distillation technology (i.e. Flash distillation, Thin Film Evaporation, conventional distillation)
- ✓ Fractionation technology
- ✓ Clay treating technology and corresponding filtration technology
- ✓ Solvent extraction technology

- ✓ Chemical & thermal treatment of emulsions and oily water technology
- ✓ Waste Water treatment technology
- ✓ Analysis technology for feedstock, product and other used oil relating material evaluation
- ✓ Blending and filling technology
- ✓ etc.

The above mentioned bullets only indicates an extract of MRD's wide range of used oil business expertise.

### **3 Financial Aspects**

(0) Are there already developed business models for intended used oil business?

NO/YES

(1) Has the financing of the intended used oil business been clarified?

NO/YES

(2) Is MRD's or its partners support required for developing of financing concepts?

NO/YES

## 4 Site Conditions of Intended Location

### 4.1 Site Elevation

The site elevation above sea level is: ..... Meter

### 4.2 Seismic Design

The site seismic zone is: .....

### 4.3 Soil Conditions

The following soil conditions exists at the site:

.....

### 4.4 Meteorological Data

#### Wind Data

- Wind rose Included: .....  NO/YES
- Maximum Wind Velocity: ..... Meter per Second
- Mean Wind Velocity: ..... Meter per Second
- The prevailing wind is: .....

#### Air Temperatures

- Annual Mean Daily Maximum: ..... Celsius Degree
- Annual Mean Daily Minimum: ..... Celsius Degree
- Annual Mean Temperature: ..... Celsius Degree
- Maximum Recorded: ..... Celsius Degree
- Minimum Recorded: ..... Celsius Degree
- Design Dry Bulb: ..... Celsius Degree
- Design Wet Bulb: ..... Celsius Degree
- Winterizing Temperature: ..... Celsius Degree

#### Rainfall

- Average Annual: ..... Millimeter
- Maximum Recorded Annual: ..... Millimeter
- Minimum Recorded Annual: ..... Millimeter
- Maximum from single storm in 24 hours: ..... Millimeter

- Annual Average Number of Rainy Days: ..... Millimeter

**Snowfall**

- Average Annual: ..... Millimeter
- Maximum Recorded Annual: ..... Millimeter