



Introduction:

Hydraulic Fluid Management

by

Kleentek: Electrostatic Oil Cleaner

**EOC-RxxTP Series** 

Focus Machinery Pte Ltd, Singapore

Χ

Kleentek Corporation Inc., Japan

## 1. Focus Machinery Pte Ltd, Singapore - History, Heritage and Background

Focus Machinery Pte Ltd, Singapore has been working with Kleentek Corporation, Inc in Japan since 1999.

We started off supplying equipment such as dehumidifier dryers and parts and components dealing with used injection machine for the export market.

We supply and support equipment and tools of various make within the Asia Pacific Region, such as Singapore, Malaysia and Indonesia – Batam.

We've successfully supplied and delivered many units of Kleentek, Electrostatic Oil Cleaners (EOCs) previously also known as Electrostatic Liquid Cleaners (ELCs) to various industries such as plastic injection moulding industries, Injection stretch blow moulding (PET bottles production) and power generation plants in the region of Singapore, Malaysia, Thailand and Indonesia – Batam.







#### Application of Kleentek: Electrostatic Oil Cleaner

Type of Lubricani/on Specific	Type	of Lubricant/Oil	Specifi
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#### **Specific Application**

Hydraulic Oil VG22 ~ 68 Hydraulic Press; Casting Machine; Forging Machine; Injection Molding; Steel Mill/Paper Mill; Gauge Control System (Steel, Aluminums, Paper); Governor Control (Power Plant); Machining Centers; Test Stand Simulator



Lubricant VG68 ~ 200

Mechanical Press Machine; Gas & Steam Turbines (Power Plants); Paper Dryer Bearing; Vacuum Pumps;



**Turbine Oil** 

**Power Plants** 



**Summary:** 

Application Oil : Mineral based oil with the exception of engine oil

Viscosity : below 200mm<sup>2</sup>/s

Temperature : below 60°C

## 3. Our Framework

	Step 1	Step 2	Step 3	Step 4
Client, (You)	<ul><li>initial contact</li><li>expression of interest</li><li>initial discussion</li></ul>	<ul> <li>benchmarking of oil performance (using Kleentek Oil Analysis report)</li> <li>benchmarking of oil performance using independent laboratory</li> </ul>	<ul> <li>taking delivery of Kleentek's Oil Cleaner</li> <li>preparation of materials and resources</li> <li></li> </ul>	<ul> <li>taking delivery of oil cleaner</li> <li>implementation of oil management control</li> <li>perform oil top-up and replenishment based on Kleentek's recommendation</li> </ul>
Focus Machinery Pte Ltd, Singapore	<ul> <li>understanding of technical background, application</li> <li>collection of oil samples, (used/new)</li> <li>membrane patch testing, internal</li> </ul>	<ul> <li>negotiation of pricing and payment term</li> <li>drafting of technical solution based on client's environment</li> <li>placement of order with the maker</li> </ul>	<ul> <li>commissioning, installation of system</li> <li>boardroom presentation, on-site training</li> <li></li> </ul>	<ul> <li>performance measurement</li> <li>regular interval oil performance measurement</li> <li>yearly onsite visit with customer,</li> </ul>
Kleentek Corp Inc., Japan	<ul> <li>maker informed of the client, enquiry</li> <li>processing of oil samples</li> <li>oil analysis report</li> </ul>	<ul> <li>maker produce the Kleentek machine with accordance to technical requirement</li> <li>tentative lead time: approxi. 3 months</li> </ul>	<ul> <li>oil samples are sent back to Kleentek Corp Inc., Japan for oil analysis</li> <li>provide recommendation based on the oil analysis</li> <li></li> </ul>	<ul> <li>feedback on the performance of client's environment</li> <li>provide recommendation and feedback on client's environment</li> <li></li> </ul>

4. Value Proposition of Kleentek: Electrostatic Oil Cleaner ("EOC")

To promote <u>sustainable practice</u> through the <u>reduced use of non-renewable</u> natural resource by refocusing the use refined mineral oil while ensuring <u>maximum uptime</u>; reduce cost of maintenance and <u>minimizing operational impact</u>.

#### **Designed for: (Industry)**

- ✓ Plastic Injection Molding Machine
- ✓ Power Generation Utilities
- Casting Machine
- Aviation
- Compressor Oil

#### **Applicable for:**

- Hydraulic Fluid
- Circulating/Lube Oil
- Gear Oil
- Thermal Oil
- ✓ Compressor Oil
- Mineral Oil Cutting Fluid
- ✓ Transformer Oils
- X Water-based Fluids
- X Engine oil, synthetics



Picture above is for illustration purposes.

Difference models may or may not differ from the one above.

#### **TP Series: Product Features**

- Improved Ergonomic Setup Digital Display
- Improved Digital Control
- Remote Monitoring via USB
- 15kV potential cleaning chamber for faster cleaning performance
- Higher High-Voltage Transformer ("HVT") Capacity
- Available in various model for different capacities
- Designed and made in Japan,
   Tokyo Certificate of Origin,
   available upon request

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#### **Benefits of EOC:**

- Eliminate Hydraulic Problems
- Eliminate Oil Leakages
- Eliminate Stuck Servo Valve
- Reduce Level of Oil Contamination
- Reduce Level of Varnish Formation
- Reduce Level of Oil Oxidation product
- Improve Membrane Patch Colorimetry ("MPC") Varnish Potential

## 6. Kleentek: Electrostatic Oil Cleaner (EOC) TP Series – Optional Accessories





#### Option 1: Screen Protector

Screen protector add-on accessories that helps to protect the LCD screen against both physical and accidental impact protection, as well as harsh climate, environmental condition and exposure.

Protect the LCD screen from smudges, fingerprints and other oily residue from remaining on the LCD.





#### Option 2: Ergonomic Trolley Handle

Improve the ergonomic working environment of your facility, by selecting this optional seam welded onto the chassis of your Kleentek: Electrostatic Oil Cleaner (EOC) for durability, functionality and practicality reason.

Ensuring that you will have a strong and practice handle for you or your staff to move the oil cleaner around your facility with ease.

## 6. Kleentek: Electrostatic Oil Cleaner (EOC) TP Series – Optional Accessories





## Option 3: Ergonomic Lift Handle

Optional ergonomic lifting handles provides ergonomic lifting point for operator of the machine to lift the oil cleaner in a safe, ergonomic manner.

\*Available only for R50TP and R100TP range.

# 5. Kleentek: Electrostatic Oil Cleaner (EOC) TP Series – Optional Accessories

Remarks: Not Available

Models TP Series:	Ergonomic Trolley Handle	Polycarbonate Screen Protector	Ergonomic Lifting Handle	Power Supply Option	Delivery Lead Time
EOC-R10TP	•	•	0	<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	1 month
EOC-R25TP	•	•	0	<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	1 month
EOC-R50TP			0	<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	1 month
EOC-R100TP				<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	2 months
EOC-R150TP				<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	2 months
EOC-R200TP		•	•	<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	3 months
EOC-R300TP	•	•	•	<ul><li>Single Phase 220V, 50Hz,</li><li>Three Phase 400V, 50Hz</li></ul>	3 months

Available



#### **Operating Principle of EOC**



Contaminants within the oil are charged using the electrode. The charged particles will move towards the electrode having opposite polarity.



EOC has the ability to eliminates any kinds and sizes of contaminants including sub-micron contaminants

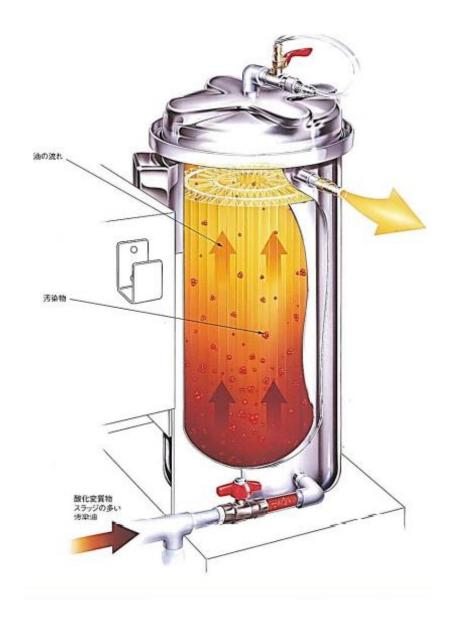


Combined both the principle of electrophoresis & dielectrophoresis



Patented designed collectors materials that deforms the electrical field and neutral contaminants are attracted to the strongest field region (Dielectrophoresis)





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#### 6. Advantages, Features and Performance



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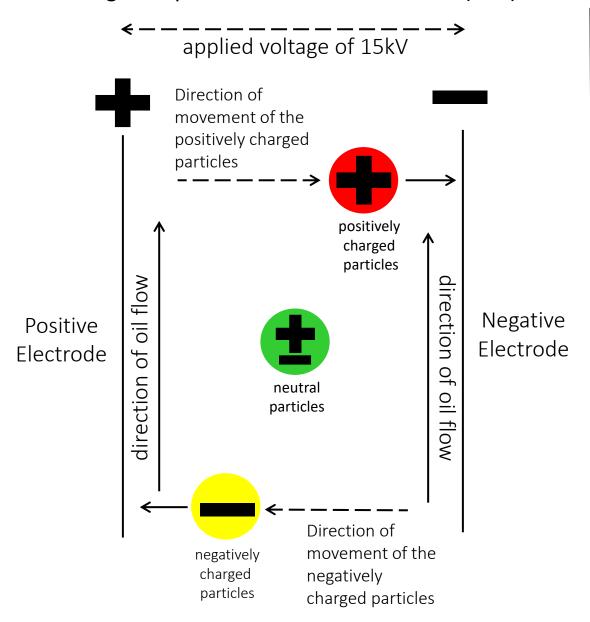


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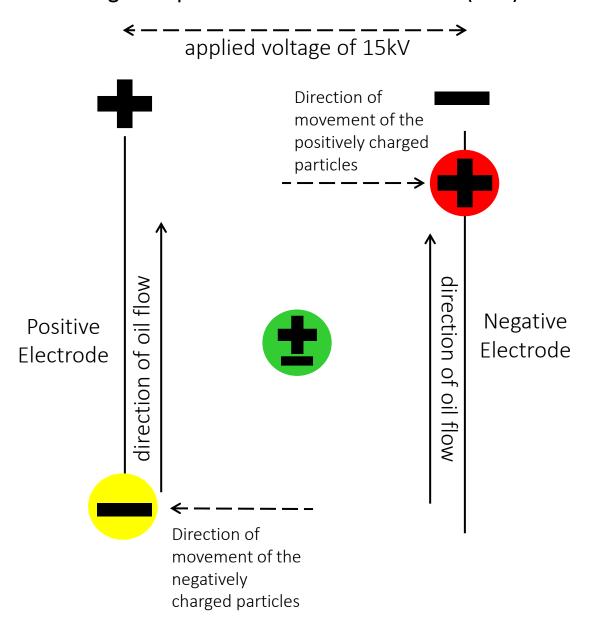


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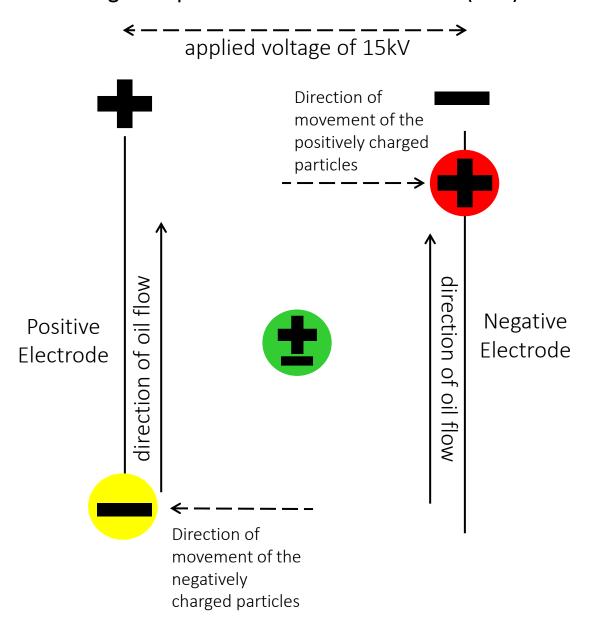


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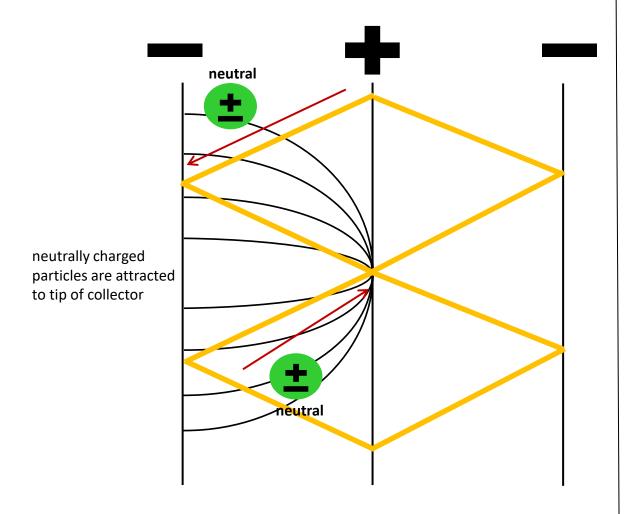


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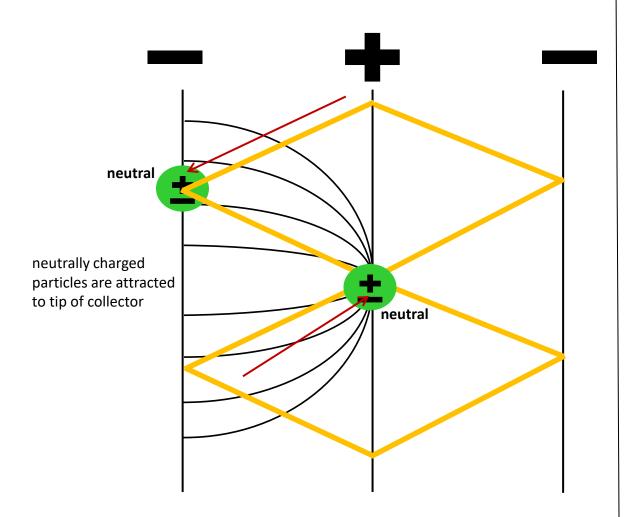


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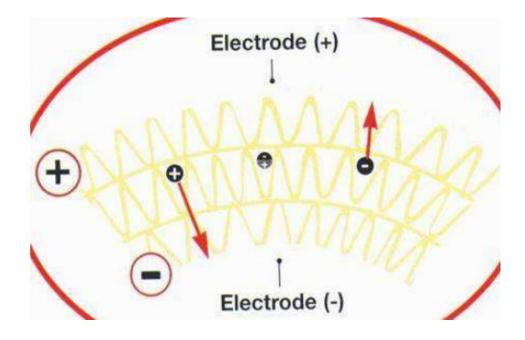


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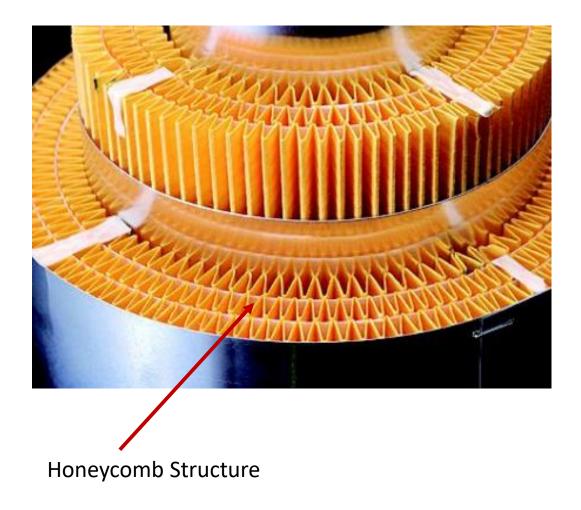


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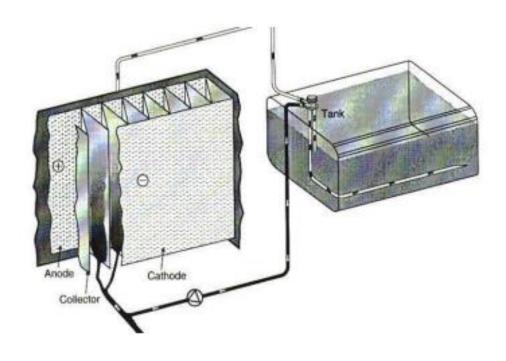
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## 5. Implementing and Operating Electrostatic Oil Cleaner ("EOC")



### Implementing, Operating and Running your EOC



Simple, quick and straightforward Implementation and Installation



No modification to your existing machine/system is required



Promote Active-Active ("online")/Active-Passive ("off-line") setup, no downtime is required for mission-critical application

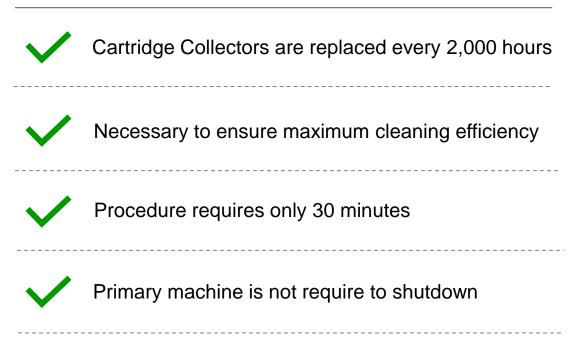


Just connect the power supply, one inlet and return hose to and from your Kleentek, Electrostatic Oil Cleaner, and your system will be up and running in no time

## 5. Implementing and Operating EOC



### **Change of Kleentek: Cartridge Collector**



# 6. Comparison between using an EOC vs Conventional in-line Filter

Using a Traditional and Conventional in-line Filter		Using a Kleentek: Electrostatic Oil Cleaner			
X	Replace line-filter when clogging occurs	<b>~</b>	No clogging of the Kleentek Cartridge Collectors upon reaching it lifespan of approximately 2,000 hours Note: depending on the level of contamination		
X	Change of oil when hydraulic failures occurs	<b>~</b>	Removal of sub-micron particles and oil oxidation products that accounts for 70% of the contaminations that take place in a hydraulic system		
X	Change of oil when oil providers recommends a oil change (without system flushing)	<b>~</b>	Removal of oil oxidation product from the surface of the internal component without removal of complex components		
×	Oil change continue to be part of the requirement of the preventive maintenance schedule with accordance to majority of the manufacturer – environmentally not sustainable		No oil change is would be required  Note: small quantity of oil (5% to 10%) top-up would be required in order to replenish the drop in level of oil additive and due to depletion of oil samples for testing		
×	Remove up to micro-level particles (6µm) sized particles only. This is equivalent of particle sized up fine iron oxide		Ability to remove up to sub-micro level particles (0.03µm) sized particles. This is equivalent of up to carbon sized particles at a microscopic level.		

## 7. Advantage of Using Electrostatic Oil Cleaner ("EOC") – TP series

#### Measures

#### **Details**

#### **Productivity**

- reduce machine downtime
- reduce the no. of defective parts produce
- ensure consistent and high-quality of manufactured parts

#### **Environment**

- extend life of lubricating fluid/oil used
- encourage energy saving
- reduce oil leakage from components and oil seals

#### **Cost Reduction**

- reduce freq. and vol. of oil purchases, disposing of expenses
- reduce cost of maintenances of equipment
- reduce and eliminate the occurrence of servo value failure and pump failure

### Sustainability

- reduce the use of non-renewable natural resources
- refocus of refined minerals oil/lubricant
- promote the use of sustainable practices



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Please contact your local/regional agent for more details. Subjected to changes without notices.

# 8. Case Study – Tokyo Motomotive Co., Ltd, Japan – Cost Benefits Analysis

Item	Description of Content	w/o Kleentek Implementation (USD)	with Kleentek Implementation (USD)	Cost Saving (dollars/year) (USD)
servo valve replacement	average 3 times a year (@USD 6,250/year)	18,750	0	18,750
cost of oil replacement	$\frac{7,000 \text{ litres}}{3 \text{ years}} = 2,333 \text{ litres/year}$ $2,333 \text{ litres} \times USD \text{ 4.00} = USD \text{ 9,333}$	9,333	0	9,333
cost of collector per year	replacement of collector twice per year @ USD 820 per collector	0	1,640	-1,640
oil addition (recommended)	5% of tank capacity of 7,000 litres (7,000 litres x 5% = 350 litres) (350 litres x USD4.00 = USD1,400.00)	0	1,400	-1,400
energy saving	reduce 5% of power consumption of hydraulic pump motor 417kW (150kW x 2 machine x 95 x 22kW (417kW X 46% X 18h X 22 days X 12 months X 5% X USD013USD/kWh)	118,500	112,580	5,920
	Total Saving	146,580	115,620	30,960

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9. Case Study – Tokyo Motomotive Co., Ltd, Japan

Customer, Tokyo Motormotives Co., Ltd Region

Tokyo Shinangawa

**Department** Engineering and Production Facilities

Maintenance Department

**Equipment** Hydraulic Press Machine

Qty: 5 units

Vol. of Oil Tank: 4,000 litres

Operating Parameters Operating Temp: 45°C

Lubri. Brand & Grade: Shell Tellus, VG46

Current Practice Oil Change Cycle: once every 2 years

Line Filter Replacement: once every year

Challenges Hydraulic Failures

Value Replacement: once every 3 years

Pump Malfunction: once every 2 years

## 9. Case Study – Tokyo Motomotive Co., Ltd, Japan (cont.)

#### ANALYSIS REPORT

No. 20669-1 ( T-H ) 47307 DATE OF REPORT: 03MAY2021 SALES CONTACT: TSUBACO

#### Customer: AQUA ELECTRIC APPLIANCE VIETNAM

We're pleased to report the analysis results of your oil as follows :

SA	MPLE DATA
OIL NAME	Shell Tellus Oil S2 M46
EQUIPMENT	Injection machine
CLEANER	NONE
OPERATING HOURS	
OIL VOLUME	2,500L
FLUID TEMP	40-50
TESTI	NG CONDITIONS
CLEANER TYPE	EDC-03
TRIAL QUANTITY	1.0L

18.6→27.0℃

0.7→1.5 μ A

0.340/min

TEMPERATURE VOLTAGE CURRENT

FLOW RATE

TIME(hr)	TURBIDITY	1000
0	26	1000
0.5	8	
1	5	
2	4	
3	4	100
		5
	-	TURBIDITY
		10
		1

SAMPLE	USED OIL	EDC 3hrs	
GRAVIMETRIC LEVEL	7.1mg/100ml	0.4mg/100ml	
WATER CONTENT	60ppm	_	
Membrane Filter MILLIPORE CAT No.AAWG04700 Size: 0.8 µ m Fluid Volume: 100ml			

#### Kleentek Corporation

Head office

Techno-Bldg, 4th floor, 2-7-7 Higashi-Ohi Shinagawa-ku, Tokyo, 140-0011 JAPAN Tel:: +81 3 3740 4141

Fax: +81 3 3740 4966



## Sample Oil



## For more information, you may reach us at:



sales@focusmachinery.com.sg
enquiry@focusmachinery.com.sg



#### **Privacy and Confidential Policy**

Some of the corporate client personal identifiable information ("PII") has been intentionally removed in order to preserve the privacy and confidential of our client.