

# 6000/12000 Litre/hour “ Kato - Japan ”



Messrs: TIRA THAI SERVICE CO., LTD.

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OPERATION AND MAINTENANCE

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I N S T R U C T I O N M A N U A L

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F O R

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HIGH VACUUM OIL PURIFIER

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MODEL KLVC-5/6AXSO-II

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KATO WORKING NO. E-1065

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Date: September, 1995

(CIM-1/1065-A



**KATO ELECTRIC MFG. CO., LTD.**

Tokyo Office:  
203, 17-19, Ebara, 2-chome, Shinagawa-ku, Tokyo, Japan.  
Tel. No.: 03-3783-5761 Fax. No.: 03-3784-6309  
Telx: 246-6049 "KATOFJ"  
Cable Address: KATODENFILT TOKYO



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Sheet No.: TO-3906 (1/  
Date: Sept. 30, 19

## TEST RECORD FOR HIGH VACUUM OIL PURIFIER

MODEL KLVC-5/6AXSO-II

Messrs: TIRA THAI SERVICE CO., LTD.

- |                          |  |
|--------------------------|--|
| 1. Date of Test:         | Sept. 30, 1995   |
| 2. Place:                | Kato Electric Mfg. Co., Ltd.<br>Mishima Plant<br>317-1 Aza-Kishida, Honjyuku,<br>Nagaizumi-cho, Sunto-gun,<br>Shizuoka-Pref., Japan. |
| 3. Wether & Temperature: | Fine 28 °C   |
| 4. Test Record No.:      | TO-3906  |
| 5. Working No.:          | E-1065   |
| 6. Type & Rating:        |  |
| (1) Capacity:            | 6,000/12,000 L/H   |
| (2) Power Source:        | 3 ph. 380 V 50 Hz  |
| (3) Heater:              | 3 ph. 120 KW (30 KW x 4)   |
| (4) Type:                | Indoor use, Portable type  |
| (5) Vacuum Pump:         | 2,500 L/M<br>Model VS1501 (ULVAC)  |
| (6) Mechanical Booster:  | 1,000 M3/H<br>Model PMB-012C (ULVAC)   |
| (7) Oil Pump:            | 6,000/12,000 L/H<br>Model L-32 (VIKING)  |

- (2) Operation & Performance Test: -----
- Satisfact
- 
- (by single pass)

Item	Cheking Point	Result
a. Starting, Running & Stopping	As per Instruction Manual & DWG. No. M33-30274a	Satisfactory
b. Measurement for:	As per Instruction Manual & DWG. No. M32-30639c	Satisfactory
<u>Pressure</u> At initial stage	PI1 0 - 5 Kg/cm2 PI2 30 - 76 cmHg PI3 0 - 5 Kg/cm2 PI4 0 - 5 Kg/cm2	0.2 Kg/cm2 50 cmHg 0.4 Kg/cm2 0.4 Kg/cm2
<u>Oil Temperature</u>	TI 30 - 50 °C	38 °C
<u>Final Vaccum Pressure</u>	4 Torr less	2.2 Torr (PIRANI)
<u>Flow Rate</u>	6,000/12,000 L/H	12,000 L/H valves fully opened

- (3) Characteristic Test for Treated Oil: -----
- Satisfact
- 
- (by single pass)

Item	Cheking Point	Result
a. Water content in Oil by ASTM D-1533	from 50 PPM to 2 PPM less by one pass	2.0 PPM
b. Gas content in Oil by ASTM D-2945	from 10 Vol.% to 0.1 Vol.% less by one pass	0.1 Vol.%
c. Dielectric Strength by JIS standard C2101-20-1978R	from 30 KV to 70 KV more by one pass	70 KV
d. Micron rating (Cuno micro klean)	1 micron	1 micron

\* Characteristic of Untreated Oil:

Water Content in Oil	-	52.0	PPM
Gas Content in Oil	-	8.1	Vol. %
Dielectric Strength	-	22	KV
Oil Temperature	-	32	°C

(4) Dielectric Strength Test

AC 2,000 V 50 Hz. 1 minute ----- Satisfactory

(5) Insulation Resistance Test

100 M-ohm by 1,000 V Megger ----- Satisfactory  
between living parts and ground

(6) Result: GOOD  
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- E. & O. E. -

Tested by: Y. Sudo  
Y. SUDO

Checking & Approved by: M. Iwamura  
M. IWAMURA  
ENGINEERING

Checking & Approved by: S. Nagayoshi  
S. NAGAYOSHI  
DIRECTOR FOR PRODUCTION  
& DESIGN ENGINEERING