





1. **TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
3. Type Examination Certificate Number: **ETL09ATEX41127X**
4. Equipment or Protective System: **LubriMist® Oil Mist System, model IVT-C followed by A, S, M, or B, followed by E or S, followed by X, C, or D, followed by X, P, or H; may be followed by 1 or 2**
5. Manufacturer: **Lubrication System Co.**
6. Address: 1740 Stebbins Drive
Houston, TX 77043, USA
7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek declares that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Report: 3195373DAL-002, dated **2009/11/25**. The investigation was begun on 2009/11/16 and concluded on 2009/11/25. A type sample was made available and tested at the Intertek, Plano, TX, USA location
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards BSI BS EN 60079-0:2006 and BSI BS EN 60079-15:2005 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
11. This Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:-

 II 3 G Ex nA nL nC IIC T4

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Cody Adams, P.E.
Director of Operations
Date: 2009/11/25

This certificate may only be reproduced in its entirety and without any change, schedule included, and is subject to Intertek Testing Services NA, Inc. Testing and Evaluation Terms and Conditions.

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13. Description of Equipment or Protective System

The LubriMist® Oil Mist System is a centralized system that supplies a lean mixture of atomized lubricating oil through low pressure distribution piping and tubing for the lubrication of machinery and equipment. The LubriMist® model IVT Oil Mist Generator that utilizes the energy of compressed air to continuously produce the oil mist for delivery to the distribution-piping network. The IVT Oil Mist Generator includes necessary heaters, controls and instrumentation to optimise performance and provide maximum system control and monitoring of peripheral devices. The model IVT is equipped with main and auxiliary oil mist generators and integral bulk oil supply reservoir to provide continuous uninterrupted operation. Optional features are available for oil mist reclamation, corrosion protection (air purge), and supply air pre-heating.

All components are packaged in a stainless steel enclosure. The LubriMist® model IVT Oil Mist Generator is suitable for installation in ATEX, CAT 3G explosive atmospheres.

This equipment has previously been assessed against the earlier Type n standard EN 50021:1999. The tests and assessments have been recorded in Epsilon Report RETS(A)0922/A/1 and certificate Epsilon 03ATEX1272X was issued on 1st June 2004. The main difference in this new approval is that a certified power supply has been introduced into the enclosure instead of being supplied from an external DC supply.

The product is rated as follows:

- 115/230 VAC, 50/60 Hz, 8.1/4.1 A;
- 230 VAC, 50/60 Hz, 9 A with Air Pre-heater option

14. Report Number

Intertek Report 3195373DAL-002, dated 2009/11/25.

15. Conditions for use:

a) Special Conditions for Use

- Ambient Range

The apparatus is for use in standard ambient range of -20 to +40°C, with the use of an optional air pre-heater. No other cabinet heating or cooling, or ambient ranges have been evaluated.

- Ingress Protection

The apparatus has been evaluated and tested for conformance with requirements to EN 60529 and is classified with an ingress protection level of IP44. All doors must remain in the closed position during normal use, not including commissioning and controller setup.

- Static Discharge

The main unit control panel display must be cleaned with a damp cloth periodically and prior to use to minimize the risk of electrostatic discharge.



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- Installation

The apparatus must be installed in accordance with the requirements of BS EN60079-14:2002 Part 14 - Electrical installations in hazardous areas (other than mines).

- Declaration of Conformity

A Declaration of Conformity must be supplied by the manufacturer, which confirms that all future models manufactured will be a true reflection of the type sample inspected for the assessment report 3195373DAL-002, dated 25 November 2009.

b) Conditions for use (Routine Tests)

- Dielectric Strength

Production to be tested for electric strength between insulation and earth in accordance with Clause 6.8.1 of BSI BS EN 60079-15:2005, at 1752 Vrms for 100 msec.

16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed and are contained in the project file per Intertek project 3195373DAL, and as detailed in Intertek Report 3195373DAL-002, dated 2009/11/25.



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17. DRAWINGS

Number	Rev.	Date	Pages	Description
77780286-70-101	1	11/16/06	1	Fuse Legend – 115 VAC Auxiliary Controller
77780287-70-101	1	11/16/06	1	Fuse Legend – 230 VAC Auxiliary Controller
77780288-70-101	1	03/07/06	1	Fuse Legend – 115 VAC Main Controller
77780289-70-101	2	11/26/07	1	Fuse Legend – 230 VAC Main Controller
77780291-70-101	6	11/23/09	1	IVT Lubrimist Name Tag
77780294-70-101	0	11/10/99	1	Electrical Warning Displays – Fuses
77780436-70-101	1	02/20/03	1	Lubrimist Synthetic Oil, and address
77780476-70-101	0	12/11/03	1	Warning Tag, Static Discharge Hazard
IVT-91-201	0	04/15/04	1	Tagging and Labelling Locations
77740224	8	11/2009	221	Installation and Operating Manual
77780685-20-101	0	04/10/00	1	115V Electrical Component General Arrangement, Auxiliary Panel - ATEX
77780686-20-101	0	04/10/00	1	230V Electrical Component General Arrangement, Auxiliary Panel - ATEX
77780783-20-101	0	03/16/06	1	DC Electrical Panel Board Assembly
77780784	A	06/20/05	1	DC Electrical Panel Board, PWB
77780785	C	01/21/06	1	DC Display Board, PWB
77780790-90-101	1	10/23/09	1	115V Electrical Panel Arrangement - ATEX
77780791-90-101	1	10/23/09	1	230V Electrical Panel Arrangement - ATEX
IVT-40-101	0	12/28/99	3	Process and Instrumentation Diagram
IVT-90-201	2	10/27/09	2	General Arrangement
IVT-30-201	9	07/11/08	1	Electrical Schematic, 115 VAC – Pre – Heater, ATEX Model
IVT-30-202	9	07/11/08	1	Electrical Schematic, 230 VAC – Pre – Heater, ATEX Model
IVT-92-201	1	11/21/07	3	Grounding and Bonding Plan
LSC-(ECO-201M)	1	02/13/06	9	Universal Controller Schematic
LS_DSPLY (D1326)	C	01/21/06	2	Display Board Schematic
718-836	C	02/20/06	1	Auxiliary Controller Schematic
77780195-20-101	R	08/21/00	1	Oil Mist Monitor Assembly
LSC – (MIST_MON)	2	11/23/09	1	Mist Monitor Board Schematic
MIST_MON Board (D1606)	B	09/28/06	1	Mist Monitor Board BOM

The Intertek logo consists of the word "Intertek" in a white, sans-serif font, centered within a dark blue rounded rectangular background.

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On the basis of the referenced test report(s), the type sample(s) of the product has(have) been found to comply with the relevant harmonized standard(s) listed on this certificate at the time the tests were carried out.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Certificate are relevant only to the type sample tested/inspected. This Certificate by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program

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