



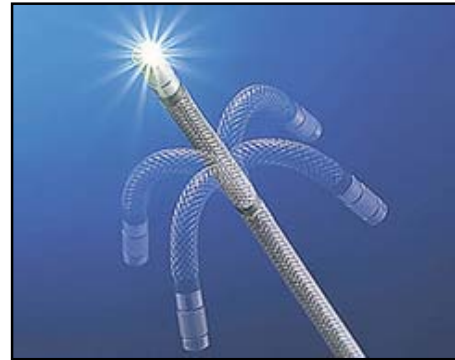
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Insight Inspection (UK) Ltd – Who Are We?

A small, newly formed Company, based in the UK, we offer a diverse range of services including Lube Oil Management, Visual Inspection & Fuel Gas Testing on a wide variety of mechanical plant. We do however specialise in rotating equipment, and draw on hands-on experience gained during an involvement of nearly 25 years within the UK Power Industry, particularly Gas Engines fuelled with aggressive fuels such as Landfill and Sewage gas.

Services Offered

We offer a range of services aimed to compliment condition monitoring based maintenance. Servicing equipment when it needs to be done rather than because the book says it's required or because it's fallen to bits! Drawing on experience gained in a whole variety of roles within the industry, we have the ability and knowledge not just to highlight a problem, but to identify the cause and suggest possible remedies. This may rest with the prime mover, its application and installation or even the way it's maintained. Pulled together, these services offer a powerful insight into the condition of your plant, allowing you to make informed decisions on maintenance timing, lube oil grades, and predictive servicing.



Lube Oil Supply Management

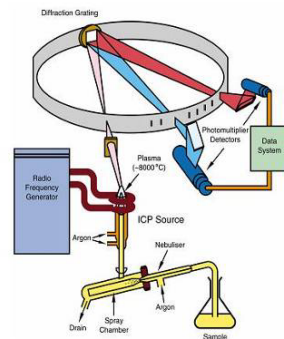
Lubricating oil is a large part of the cost of running Spark Ignited engines on gaseous fuel, representing over 10% of the O&M budget, it is a rising cost, and needs to be managed closely to optimize it's performance and return to the purchaser. In this increasingly competitive market, more customers are buying from multiple sources, with supplier's margins being squeezed, greatly differing levels of service are being provided. Irrespective of your supplier, Insight Inspection (UK) Ltd is in the unique position of being able to offer a consistent range of services irrespective of lube oil supplier. Having a market overview, Insight Inspection can give unbiased opinions and recommendations on all grades of oil, fuel types and testing, manage all your lube oil analysis testing and results, and carry out any visual inspection requirements.

Management of Lube Oil Analysis & Interpretation of Results

Lube Oil Analysis is an expensive, essential but sometimes under utilised element to your maintenance operation. It gives an extensive and precise insight into the condition and performance of your engine. With everybody's time at a premium, results of this testing are often left to gather dust in a corner, and are only studied when a problem occurs... or when it's too late.

For a monthly fee, Insight Inspection (UK) Ltd can manage this service for you, saving you time in predicting problems before they become apparent and money in avoiding major overhauls and unplanned maintenance. We can organise all your Oil Sampling needs to be processed through a single market leading laboratory. With different suppliers utilising different labs, and even different test methods for supposedly the same test, ensuring consistency of testing and continuity of results is paramount. It is the only way of making informed comparisons between oil types, engine and fuel variations, and allows educated commercial decisions to be made against hard facts rather than impressions or feelings. We offer a fully comprehensive service including results interpretation, and will provide you with regular and full reports detailing:

- Advice on the optimum lube oil grades for your engine and fuel, maximising protection of your engine.
- Optimising drain periods through the trending of results, ensuring only fully expended oil is disposed of.
- Recommendations on maintenance practice to ensure maximum oil life.
- Identification of 'Problem' equipment requiring closer scrutiny or Borescope inspection to identify source of any unusual test results
- Optimal sample regime, minimising the number of samples that need to be taken.
- When maintenance is required (in conjunction with a visual inspection)
- Trending of results to identify patterns of wear across the fleet of a similar engine type or fuel characteristics. This allows immediate identification of things going wrong before they break!
- Suggestions on fuel testing for contaminants.



A quarterly review with key personnel would then allow us to make changes to programs, adjust procedures and tailor future requirements to suit your needs.

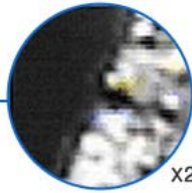
Provision of Boroscopic Inspection Service

Through the use of market leading Olympus equipment Insight Inspection (UK) Ltd have the ability to carry out detailed internal inspection of equipment with an absolute minimum of disassembly required. Latest technology allows measurement of faults, deposit build up and objects to within fractions of a millimetre with both still and video image capture for inclusion within comprehensive inspection reports for customer use and records.

Excessive wear or faults highlighted through regular inspection or a Used Oil Analysis Programme can be pinpointed using industrial borescopes, allowing timely rectification or sufficient



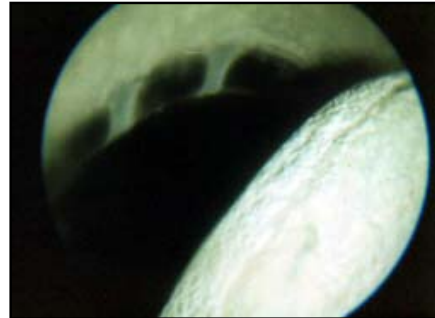
information to accurately plan for upcoming servicing needs and avoiding costly downtime. Close monitoring of combustion spaces, coupled with interpretation of the Used Oil Analysis allows exact tailoring of the selected lube oil grade. Minimising the lube oil ash content to a level that will still cope with fuel gas contaminants, whilst providing adequate protection for the duration of the selected engine service period.



New grades of oil can be trialed and monitored using a combination of Oil Analysis and Boroscopic inspection. Insight Inspection (UK) Ltd offer a complete, unbiased, monitoring and evaluation service to determine the best way forward and your selection of lubricant based on fully reported trial results.

All too often untimely reporting loses any advantage gained by carrying out the inspection. We aim to provide a quick efficient service, with comprehensive reports available within 2 working days of the inspection taking place.

Assessment and monitoring of new product performance. Minimum access requirements of the latest equipment ensure that new product trial and performance monitoring need not require long periods of downtime for inspection. Regular borescope inspection with feedback to customer/product supplier on performance with visual and used oil analysis results, backed up with customer involvement and effects on component life/deposits etc.



There are many other applications for this equipment, borescopes can also be used on any plant that needs to be inspected with a minimum of downtime, heat exchangers, incinerators, gearboxes, compressors, steam & gas turbines..... the possibilities are endless! When coupled with an oil sampling regime and trend analysis, the maximum amount of uptime can be obtained from your plant and processes.

Gas Testing Services

Without knowing the quality of your fuel, it is very difficult to ascertain the most suitable grade of oil to use. Using industry accepted equipment and procedure, we are able to determine bulk constituents, Calorific Value, contaminants such as halides, and also relative Siloxane levels. This allows exact selection of lubricant to be made before an engine even arrives on site. Testing can be carried out on most fuels including Landfill, Digester, Natural and Synthetic gases, changing concentrations will also be picked up through trending of the Used Oil Analysis results.

With less waste going to Landfill, increasingly concentrated levels of contaminants within fuel gas are being encountered. As a result, more and more devices for their removal are appearing within

the market. Insight Inspection (UK) Ltd can easily carry out 'Effectiveness Testing'. Using before and after test points coupled with used oil analysis from the engine, we can provide independent and hard data to enable you to appraise the unit's effectiveness, monitor it's performance over time, or assess when the filter medium may require changing.



Report Writing

We propose a different approach to reports that are currently delivered with borescope inspections. Although part would include the existing visual inspection report, this would be widened to include pictures of typical condition of combustion chamber, valves and liners, but also a summary of the used oil analysis for the previous 6 months. This would give a more complete picture, or 'Health Check' of the customers unit, which when combined with Operator knowledge, and site circumstances, gives the engineer an extremely powerful and complete assessment tool to determine planned maintenance regimes, avoiding costly and unplanned downtime, thus reducing operating costs and adding to gross margins.

A common comment that customers have noted is that current inspection providers deliver reports late, if at all. Without constructive, and timely, feedback, there is little or no benefit to them in having the service. These will be delivered within 48 hours of the inspection being carried out, and combine visual and historical oil results to give a full and representative picture

Failure Reporting

Even with the best installations and execution of the most careful of maintenance programmes, things can occasionally go wrong.... sometimes with catastrophic results. Using experience and necessary analytical skills, Insight Inspection (UK) Ltd can offer failure diagnostic reporting to try and identify root cause of the failure, suggest rectification recommendations, and closely monitor repaired unit to ensure non-reoccurrence.

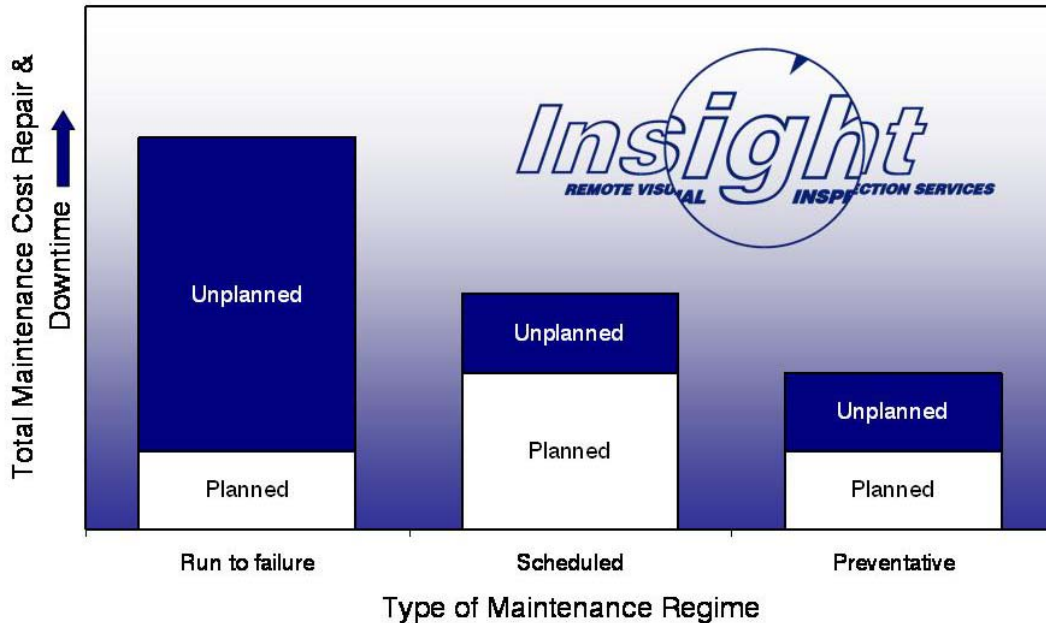
Plant Condition Assessment

By combining the above services we can also offer a Condition Assessment service for those assessing standby plant, due diligence for new purchases or acquisition, giving a full report for valuation purposes, or overhaul requirements.

Training

As regular lecturers at IDGTE and Renewable Power Association events we are able to provide training and advice for your staff on a whole range of subjects from lube oil analysis, borescope inspection, to engine maintenance procedures and control systems.

Maintenance Plans & Trends



The above illustration shows the relationship of Planned and Unplanned repairs for three different approaches to maintenance, by combining the services, experience, and market overview that we offer, Insight Inspection (UK) Ltd aim to put your business firmly on the right handside of the chart. Delivering maximum efficiency, savings and performance from one of your most expensive consumables, and protecting your equipment from unexpected failure.

We believe that we have a unique offering of services within the industry and overview of the market place that can contribute to making your business successful, and if your business is successful then ours will be too.

For further details, and to discuss your requirements, please contact:

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