

PBA NEWS

PBA News Issue #16 June 2020

CONTENTS

Page 2

Super Load – Super Move
Tekapo B HV Bushing Replacement

Page 3

Product Innovation OilWatch600L

Page 4

PBA Welcomes

New Zealand

41A Raiha St
Elsdon,
Porirua 5022
Phone: +64 4 237 7297

Australia

F4/23 Capital Place,
Carrum Downs,
Victoria 3201
Phone +61 3 9133 8957

Contact for further information

enquiries@pbanz.com

www.pbanz.com
www.ecogas600.com
www.oilwatch600.com



PBA Team Supports Essential and Critical Works During COVID-19 Lockdown

The lockdown highlighted the importance of industries most Kiwis had previously been largely unaware of in their everyday lives. Engineering was no exception and at PBA we helped to keep our customers' businesses operating efficiently serving the needs of New Zealanders. By working closely with our customers PBA was able to identify early on the projects and activities that were to be classed as essential works. This provided us with the opportunity to prepare for the long haul. It included the pre-positioning of materials

and equipment through to dedicated field teams entering an isolation period, in some cases up to two weeks, before the signalled countrywide restrictions were implemented. This action resulted in the separation of staff from families for an extended period of time. So at PBA we want to acknowledge the commitment and sacrifice of our team and their families to support critical and essential works throughout the lockdown. In short, the dedication and commitment of our team exemplified the principles and qualities of PBA that our customers value.

New Melbourne Office Reflects Growth

PBA has just opened a permanent office in Melbourne to meet increased demand from Australian customers. Located in Carrum Downs, the brand new PBA office is well placed to service the market with the workshop area specifically configured to support maximum efficiency to continue to deliver the high degree of service PBA customers expect.

PBA CEO Rob Silcock says that in a short period of time Australian GM Steve Evans has managed to form a key team of specialists.

"Considering the uncertain times associated with the Covid-19 crisis," says Rob, "the team has been able to effectively progress customer projects without delay, which has been a credit to their planning and dedication."



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Super Load – Super Move

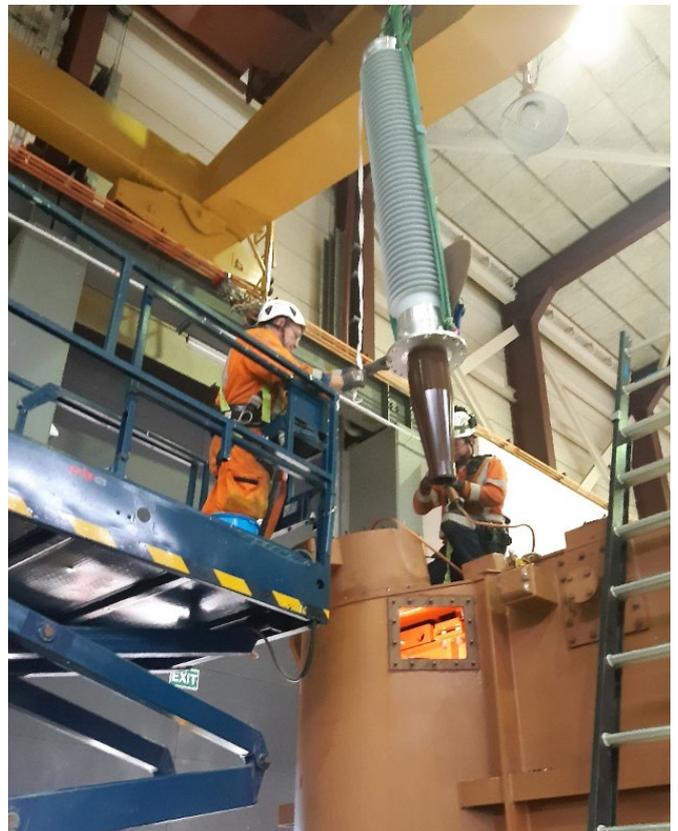
Monitoring the move of a 340 tonne transformer was all in a day's work for the PBA Australia team. The transformer, built by Hyundai in Ulsan, South Korea, was shipped out mid-April arriving at Port Melbourne in late May. The first task for the PBA team, led by Peter Jefford, was to support Hyundai with the move of the unit to site. The 340 tonne Hyundai transformer rated at 600MVA / 500kV was transported in a 101 metre long, 4.5 metre wide, 5.3 metre high 'super load' with an all up weight of a massive 645

tonnes. Utilising the services of up to five prime movers, the project involved a team of specialist engineers and pilot vehicles to move the transformer to Loy Yang B power station in Traralgon, Victoria. After the PBA team completes assembly of the transformer they will proceed to fill the unit with 110,000 litres of oil and then progress the acceptance testing.



Essential Work Continues as PBA Delivers Tekapo B HV Bushing Replacement

The essential work hasn't stopped for the PBA team as we now help with New Zealand's recovery. Currently underway for Genesis Energy is the 220kV bushing replacement on the Tekapo B generator step up transformers as part of Genesis Energy's preventative maintenance programme. This project has been rolled out over two three-month outages and we've recently reached the halfway point. Led by Daniel Booker, the PBA team successfully adapted site routine to accommodate the complexity of Covid-19 measures while working through New Zealand's countrywide level 4 lockdown. The challenge of working in a Covid-19 environment required greater focus on the wellbeing of team members and ensuring that PBA's reporting and communication supported the needs of the Genesis management team in delivering this critical work on time and to spec. Well done to our team!



Product Innovation

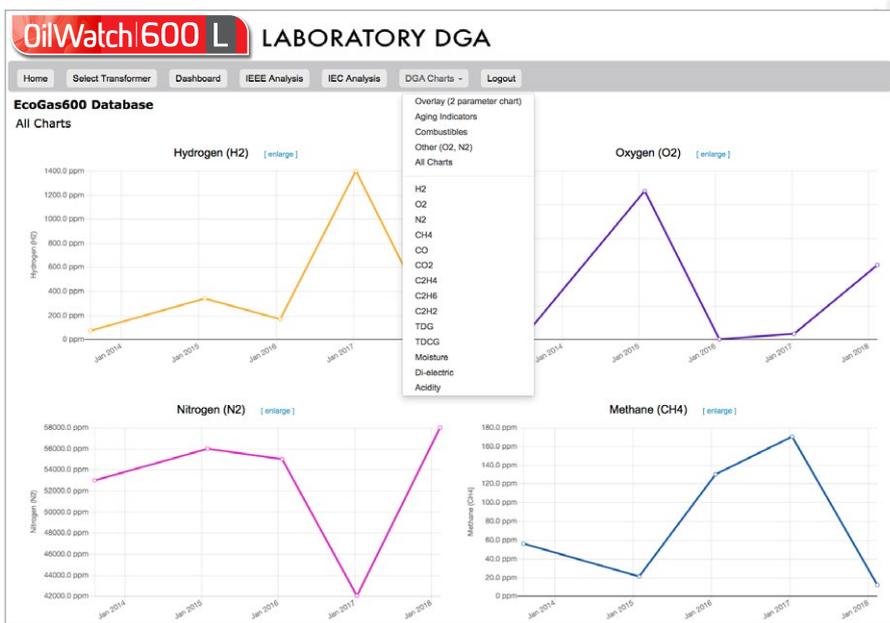
OilWatch600 L

Manage and analyse transformer lab results

Manage and Analyse Transformer Lab Results Quickly and Easily with OilWatch600L

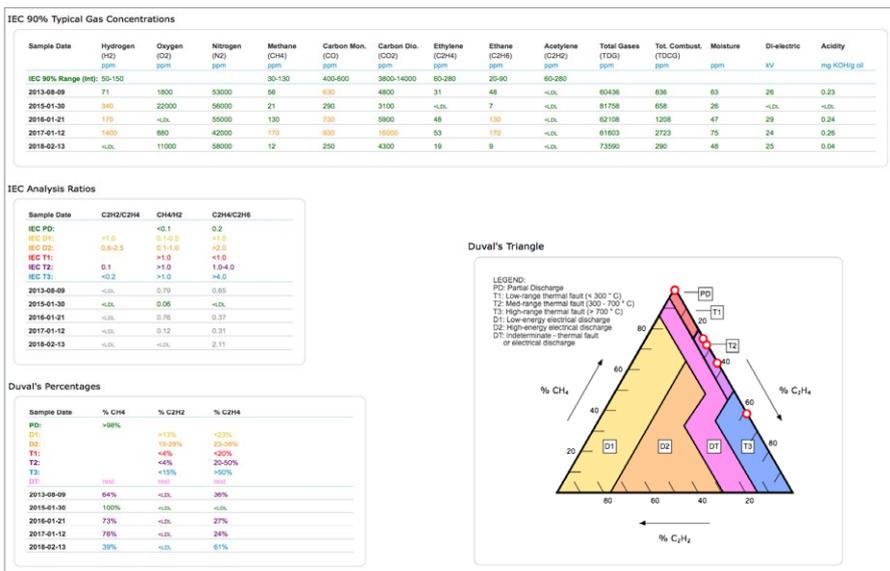
Looking for a cost-effective and easily deployed solution to manage transformer oil test results across your asset fleet? Welcome to OilWatch600L. Our cloud-based database is part of the PBA SmartData600 Suite of asset management tools and overcomes the limitations of paper-based lab reports. With OilWatch600L lab results, history and asset status are available

on demand. Clear and intuitive interfaces enable users to easily log, track and analyse laboratory oil test results against selectable standards. Coupled with the provision of graphical and tabled data comparisons, the status and out of specification conditions can be quickly identified, shared and communicated for further review and management.



FEATURES

- Cost-effective subscription service
- Secure cloud-based solution requiring minimal internal support
- Upload historical data
- Easily maintainable by users - add assets and test data using smart forms
- Track and manage change in real time
- Range of charting and data review options
- User downloadable data



Standards Covered

- IEC60599
 - IEC 90% Concentrations
 - IEC Analysis Ratios
 - Duval's Percentages
 - Duval's Triangle
- IEEE C57.104
 - IEEE Key Gas Concentrations
 - IEEE Relative Ratios and Fault Analysis
 - Rogers Analysis Ratios
 - Doernenburg Individual Limits
 - Doernenburg Analysis Ratios

Data presented in table format with parameters outside of range automatically highlighted

PBA Welcomes

Investing In the Future



Glen Gibson

Glen brings a sound knowledge of transformer construction and extensive mechanical ability to the PBA team. Based out of Oamaru Glen's comprehensive talents, particularly his welding, have come in handy many times. Glen's hobbies include making and flying drones and he is currently modifying his EVO 7 sports car to produce 700 horsepower of output.



Shaun Godfrey

Shaun joins the PBA team as a qualified cable jointer. Based at our Napier workshop Shaun has an extensive history of fieldwork and is a welcome addition to our team. With a strong automotive background it's no surprise that outside of work Shaun has a keen interest in muscle cars and motor racing.



Alan Poole

With many years of experience behind him, Alan is a valuable addition to the transformer team. Based in Oamaru, where he has lived for the last 12 years, Alan has worked on many significant projects throughout New Zealand and Australia. Alan's pastimes include enjoying a beer and following his favourite sporting team - go the Highlanders!



Callum Sutherland

Callum joins the Christchurch based team as an apprentice technical specialist. Prior to joining PBA Callum completed his pre-trade electrical training at Ara Institute of Canterbury. Callum is a keen sportsman and loves playing rugby for the Springston Club. When not playing rugby, Callum enjoys a healthy outdoor lifestyle, which includes plenty of hunting and fishing.



Peter Jefford

Peter joins PBA Australia bringing his high voltage expertise to support the team. Peter is a qualified electrician and has worked on a wide variety of large projects within Australia and the UK. Peter's thirst for knowledge in all areas of this industry further enhances his skill set and means he fits in well with the PBA ethos of continual improvement. In his spare time Peter likes to keep fit, including playing soccer, and being a dad as Peter and his partner have recently welcomed their first child, a lovely little girl.



Ephraim Barte

As a founding member of the PBA Australian team, Ephraim joins us as a test technician with transformer experience. As such he has been able to support both the Australian and New Zealand teams on a variety of projects. Ephraim is embarking on further qualifications for personal development. Ephraim is a dad to three young children so he loves to spend his spare time with family and friends.



Steve Evans

Steve joins PBA Australia as our General Manager and is tasked with growing our business. Steve has worked in the transformer industry for 24 years, starting with the mechanical design of transformers through to service, operational and management roles. Steve has been involved in many transformer projects throughout Australia, New Zealand, Fiji and Malaysia. He is a keen tennis player and enjoys getting away with the family in their caravan.