

## NEW FUEL ANALYSIS MODULE

### Dear Valued Customers and Friends

Blue Oceans online trending program has always had the capabilities of searching, viewing and trending your Oil Analysis results online, due to the success of this, Technomics have now incorporated the ability to also search, view and trend your Fuel Analysis results.

The Analytical evaluation of your fuels quality, cleanliness and physical properties are clearly reported in a user friendly manner, this enables planners and maintenance staff to quickly and precisely make decisions based off the analysis interpretation of the results.

Fuel Analysis is performed on diesel, petrol and bio degradable fuels to ensure that when the fuel is burnt in the combustion process, it will not carry any contaminants, bugs, fungal growth, water or other physical compositions that may harm or potentially lower an engines life span.

The new fuel module will allow you to quickly find results by allowing you to search via multiple selections; these searching functions have been created to speed up the process when looking for historical information.

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Mayfield East, NSW, 2304  
Ph: 02 6571 2699  
Fax: 02 6571 2044



Technomics specialises in providing oil analysis services, and specialty lubricants to the mining industry.



By implementing a regular magnetic plug inspection program you will have a very low cost, effective and immediate early warning condition monitoring tool.

**Find Results**

Plant/Barge Id

Compartment

Select a Date :

Select action

Status	Make/Model	Plant Id	Compartment	Quality	Date Sampled	Date Analysed	Date Reported	Days Since
Viewed	CC/DD	KH	REAR ENGINE / ENG31		14/06/2010	30/06/2010	11/07/2010	648
Viewed	AA/BB	KY	FRONT ENGINE / ENG30		14/06/2010	30/06/2010	11/07/2010	648
Viewed	EE/FF	KZ	RIGHT FINAL DRIVE / FD52		14/06/2010	30/06/2010	11/07/2010	648
Viewed	/D50KS	Mx1	PTO FRONT / PTRR		14/06/2010	30/06/2010	11/07/2010	648
Viewed	/D60ks	Mx2	PTO REAR / PTRR		18/06/2010	30/06/2010	11/07/2010	644
Viewed	/D70ks	Mx3	ROTARY / RTRY		14/06/2010	30/06/2010	11/07/2010	648



Technomics filtration services can assist companies with the design and installation of a range of fuel and oil filtration solutions.


The Fuel report itself, is simple and easy to use, making this an effective tool for any maintenance program. It provides you with the capabilities to see and trend previous results, monitor large bulk tanks and deliveries to ensure that the quality of fuel is consistent and maintained.

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Large bulk tanks should be regularly sampled and analyzed to ensure that water contamination, bacterial growth, fungal growth and oxidization is not occurring, especially with fuel that may lay dormant for awhile.


Another perfect reason as to check your fuel is for the quality you are receiving by your supplier, at such a high a price for fuel, you need to ensure you are getting quality fuel that will have a complete combustion and not leave deposit build-up that may cause harm due to using poor quality fuels.

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**TECHENOMICS INTERNATIONAL**


**FUEL ANALYSIS REPORT**



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**GENERAL INFORMATION**

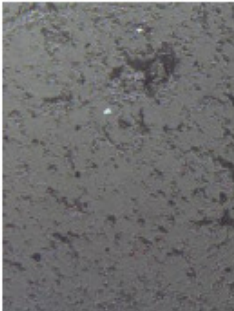
Attention : Jason	Plant ID :	Mat
Customer : SANI	Equipment Location :	Mayfield
Address : 56 Industrial Drive	Equipment Make/Model :	D50KB
Customer Contact : Chris	Compartment :	Engine
Telephone : 265712699	Fuel Type :	Solar HSD
Fax : 265712044		



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**FUEL ANALYSIS RESULTS**

Sample ID : 1211	<b>Comments On Elevated Results</b>
Date Sampled : 22-March-12	Iron, silicon and lead showing elevated results. Silicon indicates dirt ingress. Check seals and breathers.
Date Received : 23-March-12	
Date Reported : 23-March-12	

ANALYSE	METHOD	RESULT	SPECIFICATION		RESULT MICRO	
			MIN	MAX		
<b>ELEMENTAL (PPM)</b>						
Aluminium (Al)	ASTM D5185	2		3		
Copper (Cu)	ASTM D5185	2		3		
Iron (Fe)	ASTM D5185	5		3		
Lead (Pb)	ASTM D5185	3		3		
Silicon (Si)	ASTM D5185	4		3		
Magnesium (Mg)	ASTM D5185	2		3		
Calcium (Ca)	ASTM D5185	1		3		
Phosphorus (P)	ASTM D5185	2		3		
<b>Physical / Chemical</b>						
Appearance	ASTM D4178	2				
Colour Units	ASTM D1500	1	0.5	2		
Water by KF ppm	ASTM D9304	28		500		
TAN, mg KOH/g	ASTM D884	0.03	0	0.08		
SAN, mg KOH/g	ASTM D974	3		Nil		
Viscosity at 40°C, cSt	ASTM D445	3	2	4.5		
Density at 15°C, g/ml	ASTM D4052	0.82	0.82	0.85		
Water & Sediment Content % Vol	ASTM D2709	0.05		0.05		
Flash Point PMCC, deg C	ASTM D93	130	61.5	104		
Calculated Cetane Index	ASTM D4737	56	48			
Copper Strip Corrosion (3hr/50deg C) Class	ASTM D130	1		Class 1		
<b>DISTILLATION</b>						
Initial Boiling Point °C	ASTM D88	360				
10% Recovered °C	ASTM D88	360				
20% Recovered °C	ASTM D88	370				
50% Recovered °C	ASTM D88	380				
90% Recovered °C	ASTM D88	390		357		
95% Recovered °C	ASTM D88	387		360		
Final Boiling Point °C	ASTM D88	380				
<b>Particle Cleanliness Analysis</b>						
Distillation Loss % Volume	ASTM D88	0.4	0.5	IBO 4426 - 05	245	
Distillation Residue % Volume	ASTM D88	1	1.5	IBO 4426 - 14	23	
Bacteria & Fungal Growth	In-House	Positive		Count /ml		
Particle Count (Partic/ml)	ISO 4406	16/16/10	17/16/11			

For Technical Information, Please contact TECHENOMICS AUSTRALIA  
5/56 Industrial Drive, Mayfield East, New - 2304  
PH. 0265712699 FAX. 0265712044 E-mail: laboratory@techenomics.com



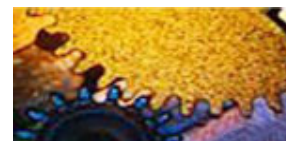
Blue Oceans Software



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