



# TEC Check

ABN: 42 006 332 949  
 2 Carribean Drive, Scoresby VIC 3179  
 Phone: (03) 9765 3222 Fax: (03) 9764 0034

TEST REPORT		REPORT NUMBER	STATUS
Report Number:	1078767	1078767	Satisfactory 
K Number Ref:	K1046839		
Sample Number:	1		
Cust Sample ID/Job No:	GRAHAM		
Schedule Class:	3DEN		
Date Sampled:	18/11/2009		
Date Received:	27/11/2009		
Hrs On Oil:	N/K		
Hrs On Equipment:	1078		
Oil Changed?	N		
Top Up	N/K	Caution values for ENGINE	
Oil brand	N/K		
Oil grade	SAE 20W40		
Status			



VISCOSITY @ 100°C (ASTM D445) mm²/s	14.46	<12.5 >16.3
VISCOSITY @ 40°C (ASTM D445) mm²/s	106.8	
VISCOSITY INDEX (ASTM D2270)	139	
FUEL DILUTION (OL1007) %W/W	1.4	3.5
FTIR SCAN EXT. (ASTM E2412)		
WATER (OL1020) %w/w	0.041	0.15
TOTAL SOOT (OL1108) %w/w	0.364	2.5
OXIDATION (OL1027)	13.3	50
NITRATION (OL1026)	4.44	25.0
TOTAL BASE NUMBER (OL1021) mg KOH/g	9.23	
PARTICLE QUALITY INDEX (OL1028)	10	26
METALS (OL1052) mg/L		
IRON mg/L	4	70
CHROMIUM mg/L	0.2	10
LEAD mg/L	<1	25
COPPER mg/L	1	25
TIN mg/L	<1	35
NICKEL mg/L	<1	3
ALUMINIUM mg/L	2	20
SILICON mg/L	2	15
SODIUM mg/L	4	30
POTASSIUM mg/L	<1	
BORON mg/L	2	
CALCIUM mg/L	3157	ADDITIVE
ZINC mg/L	1375	ADDITIVE
PHOSPHORUS mg/L	1077	ADDITIVE
SULPHUR mg/L	4630	ADDITIVE
MAGNESIUM mg/L	8	ADDITIVE
MOLYBDENUM mg/L	<1	ADDITIVE

**EQUIPMENT DETAILS**  
 SERIAL NO: 46006044  
 ID:  
 PARENT EQUIPMENT: BOAT  
 COMPARTMENT: ENGINE LH  
 COMP SERIAL:  
 MAKE: FLEMMING 55 PORT  
 MODEL:  
 ENGINE MODEL: C8-3M3 450

**OPERATION DETAILS**  
 OIL MANUFACTURER: N/K  
 OIL TYPE: N/K  
 OIL GRADE: SAE 20W40  
 TOP UP (L): N/K  
 LUBE CAPACITY (L): 20  
 OIL CHANGED: N  
 FILTER CHANGED: N  
 BRANCH:  
 SITE:

**CUSTOMER DETAILS**  
 CUSTOMER CODE: 632127  
 NAME: GRAHAM R YOUNG  
 ADDRESS: PO BOX 163  
 BELMONT  
 WA 6014  
 CONTACT: GRAHAM  
 PHONE: 08 9481 8787  
 FAX:  
 MOBILE: 0428177063

Abnormal values
X = Uncategorised abnormal value
A = Slightly elevated abnormal value
B = Elevated abnormal value
C = High abnormal value
D = Critical abnormal value

## RESULTS OF SAMPLE ANALYSIS

### Comments: 1078767

- \* Results are satisfactory.
- \* Resample at manufacturer's recommended intervals for assessment.

Tested by:  
 Oilcheck  
 Sydney Laboratory  
 95 Clapham Road  
 Sefton NSW 2162  
 Australia

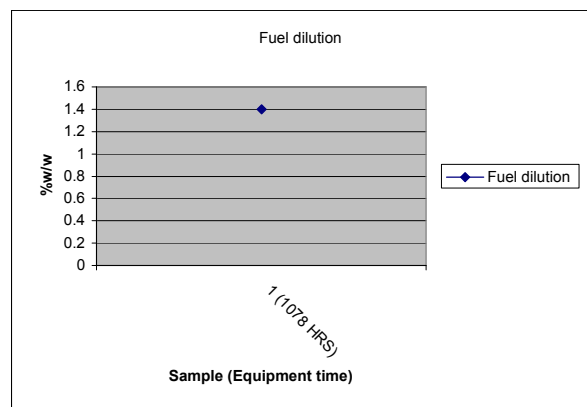
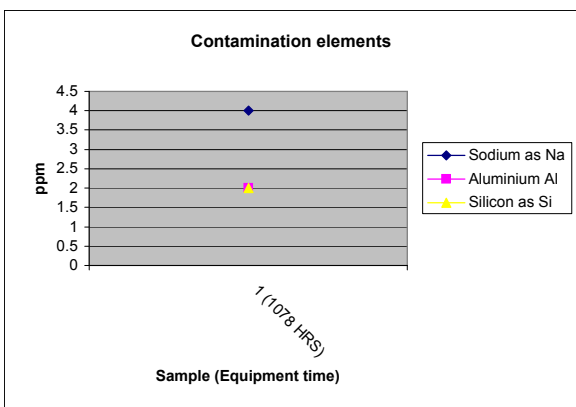
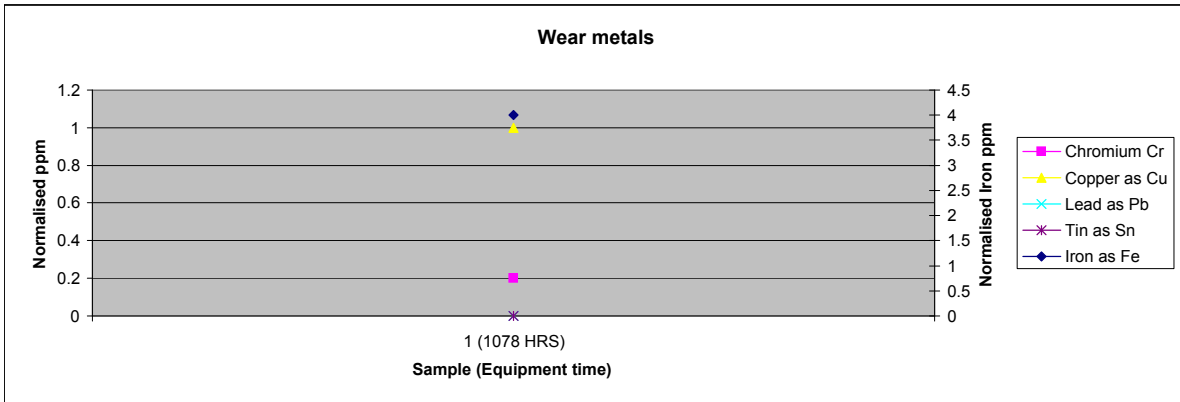
Authorised signatory

*A. Colangelo*

Tony Colangelo  
[tony@oilcheck.com.au](mailto:tony@oilcheck.com.au)

Telephone 61 2 9644 9100  
 Sample tested as received

Analysis by OILCHECK PTY LTD NSW  
 ABN 56001554310  
 An independent owned and operated specialist commercial laboratory



#### QUALITY POLICY STATEMENT

*Oilcheck Pty Ltd is a commercial laboratory, accredited with the National Association of Testing Authorities. We specialise in the physical and chemical testing of lubricants, fuels and other petrochemical products, primarily for the purpose of condition monitoring and fault diagnosis. The service is utilised for plant and equipment from a wide range of industries.*

*We are wholly Australian owned and market our products and services throughout Australia and export to a number of overseas countries.*

*We recognise the fact that the key to success in any organisation is the consistent satisfaction of customer requirements. Our company is committed to continually improving our quality system so as to provide products and services which meet or exceed our customers' expectations and which will conform to all regulatory requirements.*

*As part of this pursuit for quality, implementation and adherence to quality standards throughout the company is vital. We pay due regard to the health and safety of our staff and encourage proper respect for the environment.*

*The quality system conforms to the Internationally recognised quality standard AS/NZS ISO 9001:2000, "Quality management systems - Requirements". Oilcheck is also committed to comply with the requirements of ISO 17025, "General Requirements for the Competence of Testing and Calibration laboratories".*

*Support of our quality system by trained staff will allow for continuous improvement of our organisation and the relationship with our customers. This will ensure our position as a leader in the increasingly competitive national and international markets.*

**Did you know:** The information that you would normally find on the back of the report has moved. We've made it easier to read and understand on the web along with other interesting information. For more information visit us on the web at [www.oilcheck.com.au/questions](http://www.oilcheck.com.au/questions)

**Did you know:** Graphed metal results are normalised, this means we are only comparing results at standard intervals i.e. 200 hours for engines, 500 hours for non-engines. This is only for trending purposes so you can compare the current results with past results. For more information visit us on the web at [www.oilcheck.com.au/questions](http://www.oilcheck.com.au/questions)

**Did you know:** It is important to fill out the sample description forms correctly. The information that you provide us with will help us to know more about your sample, and help us help you for when you get the report back. For more information visit us on the web at [www.oilcheck.com.au/questions](http://www.oilcheck.com.au/questions)

**Did you know:** If you take the sample when the oil is cold it will reduce the accuracy of the sample. The majority of the particles we are looking for fall to the bottom and may not be tested. So make sure the samples are taken at operating temperatures to get the maximum benefit out of your INSPEC oil analysis [www.oilcheck.com.au/questions](http://www.oilcheck.com.au/questions)