



**NORMAL**



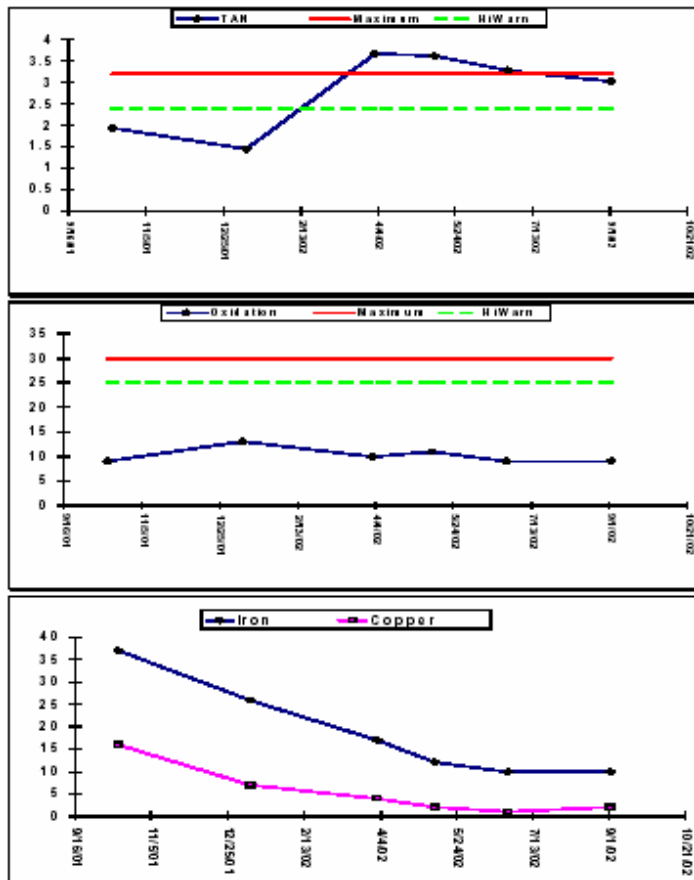
Lab Number : Q72788

ID: 95BMW 1995 BMW 525i, Eddy Lockwood  
 Unit Type: BM\_GL001 BMW Engine, Gasoline  
 Oil Type : PE\_037 Pennzoil Long Life Heavy Duty SAE 10W-30 P.O. #:VERBAL  
 Sampled : 09/02/02 Shipped : 09/02/02 Received: 09/03/02 Printed: 09/06/02

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 14:35:10

**NORMAL:** Sample data is satisfactory. No action is required at this time.  
**PROBLEM:** None  
**RECOMMENDATION:** Resample at your regular interval.

LuBoron™, LLC  
 1147 River Road  
 Charlottesville, VA 22901



Lab Number	Minimum	Maximum	Q22703	Q35839	Q48693	Q55970	Q64111	Q72788
Sample Date			10/14/01	01/09/02	04/02/02	05/10/02	06/27/02	09/02/02
Unit Time			0	87721	92875	97937	103584	108839
Oil Time			0	87721	5154	0	5647	5255
<b>Metals</b>								
Iron ppm		125	*37	26	17	12	10	10
Aluminum ppm		15	1	<1	<1	<1	<1	<1
Chromium ppm		15	<1	1	1	<1	<1	<1
Copper ppm		75	16	7	4	2	1	2
Lead ppm		105	<1	1	<1	<1	<1	<1
Tin ppm		7	<1	1	1	3	1	<1
Nickel ppm		5	<1	1	<1	<1	<1	<1
Silver ppm		5	<1	<1	<1	<1	<1	<1
Silicon ppm		20	<1	3	**88	**21	4	3
Sodium ppm			4	4	5	<1	1	2
Boron ppm			1	112	1365	328	131	74
Zinc ppm			1020	1899	1259	1423	1157	1059
Phosphorus ppm			779	1550	929	1153	903	810
Calcium ppm			939	3724	2453	2770	2172	2106
Magnesium ppm			333	400	240	292	59	22
Barium ppm			<1	<1	<1	<1	<1	<1
Molybdenum ppm			3	118	85	108	85	87
Vanadium ppm			<1	<1	<1	<1	<1	<1
TAN mg KOH/g		3.20	1.93	1.45	3.67	*3.62	*3.28	3.03
TBN mg KOH/g			1.31	1.44	2.74	4.27	1.86	1.85
Oxidation Abs/cm		30	9	13	10	11	9	9
Water FTIR % Vol		0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitration Abs/cm		30	14	13	13	14	14	14
Percent Fuel % Vol		5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Percent Glycol % Vol		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vis @100 Deg C cSt			**10.74	12.79	13.37	14.52	**10.40	9.82

Evaluated By: Misty J. Trumppower

For questions about this report, please call 888-HER-GUTH (437-4884) between 8:00 am and 5:00 pm PST. A Technical Support Representative will be glad to help you.

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