



NORMAL



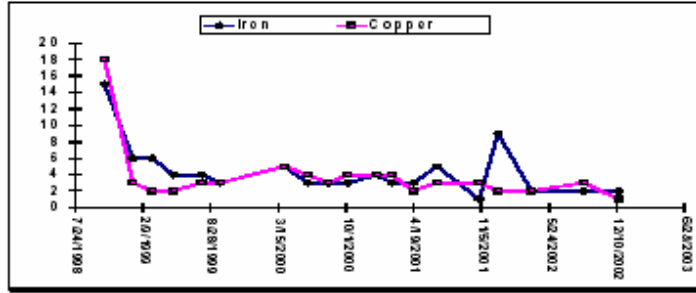
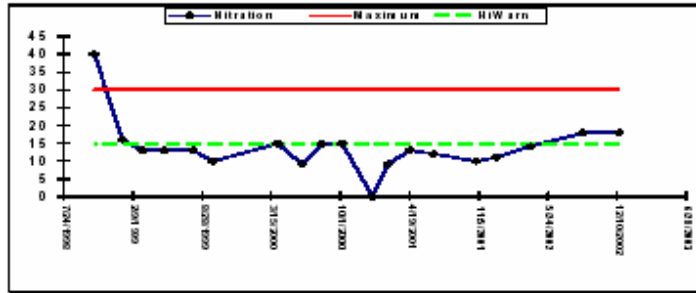
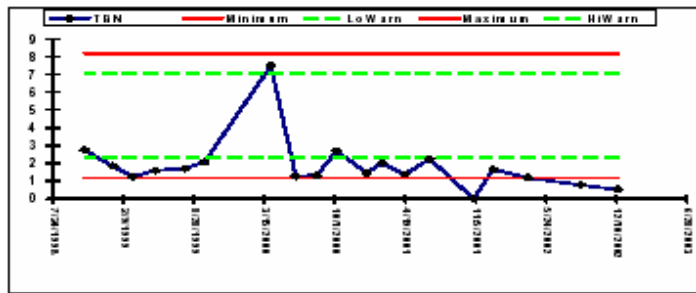
Lab Number : Q88947

ID: S70VOLVO 1998 Volvo T5
 Unit Type: VV_GL001 Volvo Engine, Gasline
 Oil Type : CL_005 Castrol GTX SAE 10W-30
 Sampled : 12/15/02 Shipped : 12/15/02 Received : 12/16/02 Printed: 12/20/02
 P.O. VERBAL

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 13:25:22

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	Ref Oil	Q25442	Q33440	Q48695	Q72787	Q88947
Sample Date			10/25/00	10/30/01	12/26/01	04/02/02	09/02/02	12/15/02
Unit Time				116782	120680	125412	130340	135780
Oil Time				5500	3898	4732	4807	5440
Metals								
Iron ppm		10	1	1	9	2	2	2
Aluminum ppm		6	<1	1	2	1	2	3
Chromium ppm		4	<1	<1	2	<1	<1	<1
Copper ppm		6	<1	3	2	2	3	1
Lead ppm		4	<1	<1	1	<1	<1	1
Tin ppm		4	<1	<1	1	1	1	<1
Nickel ppm		4	<1	<1	1	<1	<1	1
Silver ppm		4	<1	<1	<1	<1	<1	<1
Silicon ppm		20	2	2	3	2	9	6
Sodium ppm			<1	1	3	1	1	<1
Boron ppm			1	<1	2	2	<4	<4
Zinc ppm			879	1086	972	824	888	900
Phosphorus ppm			735	826	769	677	750	788
Calcium ppm			1610	1879	1601	1501	1677	1772
Magnesium ppm			287	21	22	21	13	10
Barium ppm			<1	<1	<1	<1	<1	<1
Molybdenum ppm			94	49	42	42	45	42
Vanadium ppm			<1	<1	<1	<1	<1	<1
TAN mg KOH/g		4.58		2.22	1.95	2.29	2.87	2.72
TBN mg KOH/g	1.18	8.23	6.25	**<0.10	*1.66	*1.21	**0.78	**0.52
Oxidation Abs/cm		30	<2	5	9	12	12	12
Water FTIR % Vol		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitration Abs/cm		30	<2	10	11	14	*18	*18
Percent Fuel % Vol		5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Percent Glycol % Vo		0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vis @100 Deg C cSt	9.00	12.80	11.38	10.02	9.85	9.85	9.87	9.94

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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