

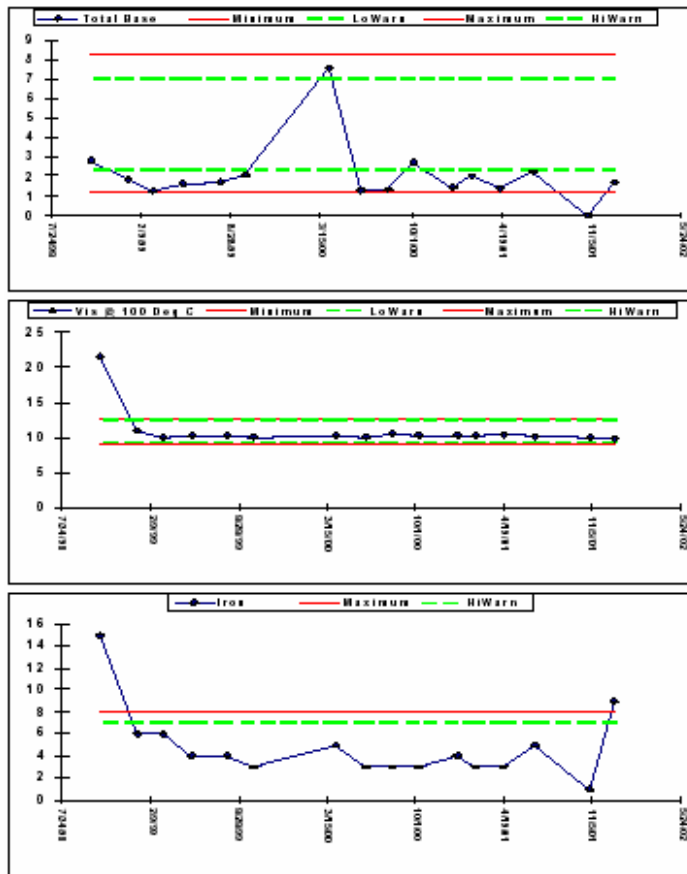


Lab Number : Q33440

S70VOLVO : 1998 Volvo T5
 Volvo Engine, Gasoline
 Unit Type:VV_GL001 Volvo
 Oil Type: CL_005 Castrol GTX
 Shipped : 12/26/01 Received:12/27/01 Printed: 12/28/01 Posted: 01/03/02
 P.O.#: VERBAL

*NORMAL: Sample data is satisfactory. No action is required at this time.
 Resample at your regular sampling interval.*

LuBoron™, LLC
 1147 River Road
 Charlottesville, VA 22901



Lab Number	Minimum	Maximum	Ref Oil	P72638	P82512	P94814	Q25442	Q33440
Sample Date			10/25/00	02/14/01	04/18/01	06/28/01	10/30/01	12/26/01
Unit Time				93643	100060	0	116782	120680
Oil Time				5922	6417	6055	5500	3898
Metals (ppm)								
Iron		8	1	3	3	5	1	9
Aluminum		6	<1	2	2	4	1	2
Chromium		4	<1	<1	<1	<1	<1	2
Copper		6	<1	4	2	3	3	2
Lead		4	<1	<1	<1	<1	<1	1
Tin		4	<1	1	1	<1	<1	1
Nickel		4	<1	<1	<1	<1	<1	1
Silver		4	<1	<1	<1	<1	<1	<1
Silicon		20	2	4	3	<1	2	3
Sodium			<1	3	2	3	* 1	* 3
Boron			1	1	1	<1	<1	* 2
Zinc		879	931	897	867	1086	972	972
Phosphorus		735	763	709	804	826	769	769
Calcium		1610	2257	2330	2250	1879	1601	1601
Magnesium		287	304	276	* 159	* 21	22	<1
Barium		<1	<1	<1	<1	<1	<1	<1
Molybdenum		94	86	87	81	* 49	42	42
Vanadium		<1	<1	<1	<1	<1	<1	<1
Total Acid		4.48	1.96	2.20	2.14	2.22	1.95	1.95
Total Base	1.18	8.23	6.25	2.02	* 1.39	* 2.23	* <0.10	* 1.66
Oxidation Level		30	<2	5	7	5	9	9
Water %FTIR		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitration Level		30	<2	9	13	12	10	11
PercentFuel		5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PercentGlycol		0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vis @ 100 Deg C	9.00	12.80	11.38	10.17	10.36	10.11	10.02	9.85

Evaluated By: William R. Herguth, CEO 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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