Report Date: June 29, 2015

Name: Liqui Moly Oil Additives Service

Objective: Before and After Dyno and Data Monitoring Test Results

Test Vehicle: 1995 Porsche 993 Coupe

Mileage: 83753 KMS

Transmission: Manual 6 speed Measured in 4th Gear Ratio 1:1 Ambient Temperature: 25°C

Test Date: June 29, 2015

Maintenance Service & Engine Treatment Performed:

- 1. Engine Flush before Oil Change with Liqui Moly *Pro-Line Engine Flush*.
- 2. Lube, Oil and Filter Service with Liqui Moly Leichtlauf High Tech 5W40 Full Synthetic Motor Oil.
- 3. Engine Treatment with Liqui Moly Cera Tec and Liqui Moly Motor Oil Saver.

Pre-Treatment Testing:

- 1. Install car on dyno.
- 2. Performed drive train losses and calibrate dyno speed (Attachment 1).
- 3. Performed Two Income Performance Test on Full Load (Attachment 2 & 3).
 - Running Engine Oil Temperature at Start of Test 1: 85°C
 - Running Engine Oil Temperature at Start of Test 2: 85°C
- 4. Performed Partial Load Test between 2000-4000RPM (Attachment 8).
 - Running Engine Oil Temperature at Start: 86°C
 - Running Engine Oil Temperature at End: 110.0°C
- 5. Performed Partial Load Test (Fuel Consumption) between 2000-4000RPM (*Attachment 9*). Test performed on each Testpoint with 2 minutes measuring time in (L/h)
- 6. Partial Load Test Time is approximately 20 Minutes

Post Treatment Testing:

- 1. Install car on dyno.
- 2. Performed drive train losses (Attachment 4).
- 3. Performed Two Income Performance Test on Full Load (Attachment 5 & 6).
 - Running Engine Oil Temperature at Start of Test 1: 85°C.
 - Running Engine Oil Temperature at Start of Test 2: 85°C.
- 4. Performed Partial Load Test between 2000-4000RPM (Attachment 8).
 - Running Engine Oil Temperature at Start: 89°C
 - Running Engine Oil Temperature at End: 112°C.
- 5. Performed Partial Load Test between 2000-4000RPM (Attachment 9). with 2 minutes measuring time in L/h at each Testpoint.

Test Results:

- 1. At Full Load, the overall gain in Engine HP is 13HP (+8.8%) and Torque 16ft/lbs (+8.8%) and is consistent over the complete engine speed range. (Attachment 7)
- 2. At Partial Load 3320 rpm, the overall gain in Engine HP is 3.3HP (19.6%) and Torque 4.2 ft/lbs (12.7%). (Attachment 8)
- 3. As a result of the Liqui Moly additives used, the Fuel Consumption in Partial Load at 2080rpm in 3.Gear is (-8.82%) and at 3600 rpm in 6.Gear is (-7.05%). (Attachment 9)
- 4. HP and Torque increase has clearly increased by the same load/throttle position. HP Increase in Partial Load is between 5.3% and 19.6% and Torque Increase is between 5.9% and 15.9%. (Attachment 8)

Attachment 1

Drive Train Losses Before Service

Attachment 2

Incoming Performance Test Before Service - Graph

Attachment 3

Incoming Performance Test Before Service - Data

Attachment 4

Drive Train Losses After Service

Attachment 5

Incoming Performance Test After Service - Graph

Attachment 6

Incoming Performance Test After Service - Data

Attachment 7

Performance Test Comparison. Before and After Service

Red - Before

Black - After

Attachment 8

Engine speed, Car speed & Horsepower and Torque Measurement Comparison Before and After Service.

Orange - Before

Green - After

Attachment 9

Engine speed, Car speed and Gear with Fuel Consumption Comparison as Table Before and After Service.

Orange - Before

Green - After

Attachment 10

Fuel Consumption Chart (Graphic)

Black - Before

Red - After

RSP-Motorsports Inc. Tel: 519-474-7700
15 Springfield Way, Kilworth/Komoka, ON NOL 1R0 Fax: 519-474-7702

Web: www.rspmotorsports.com Email: info@rspmotorsports.com



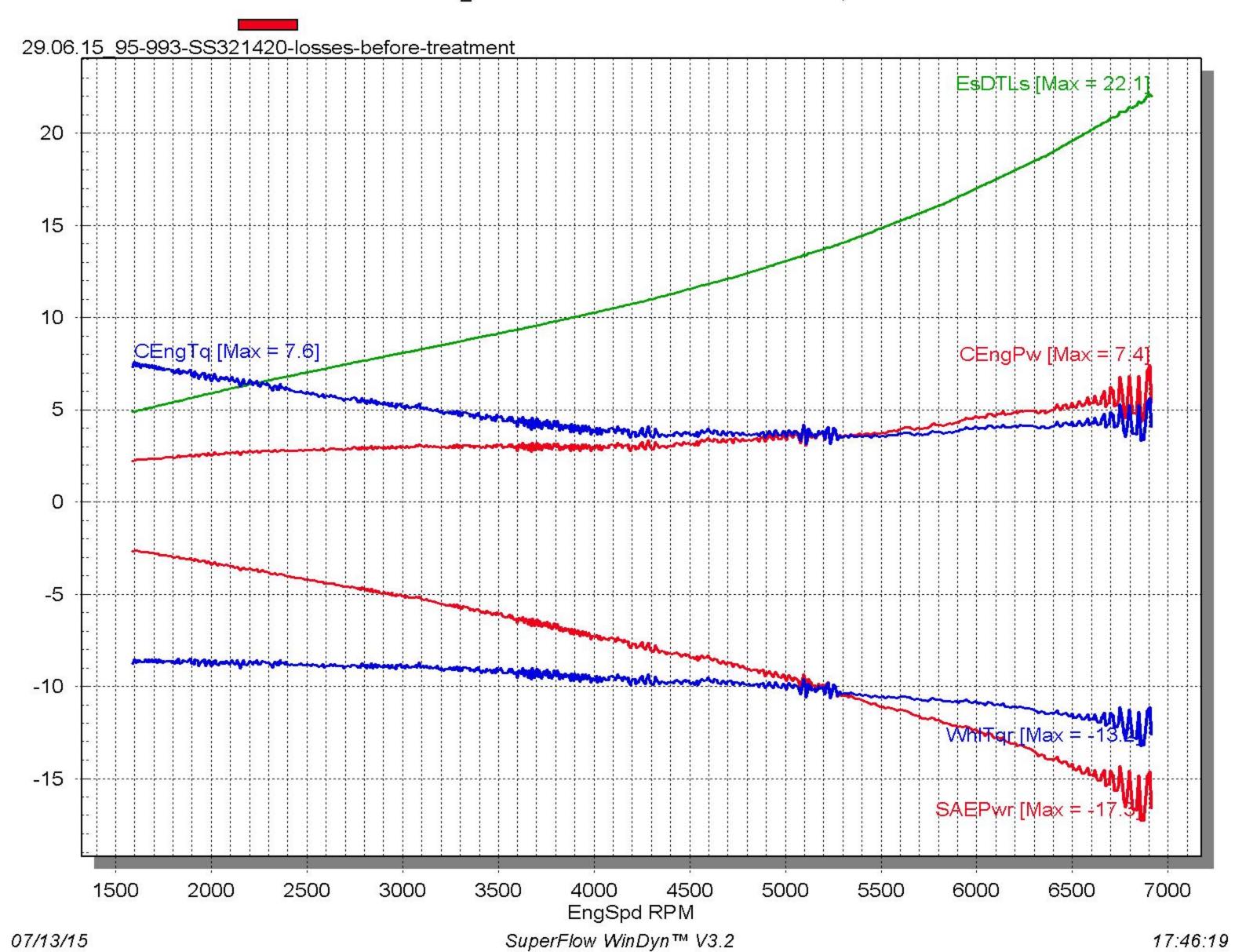
Sales, Service, Performance, Dynotuning





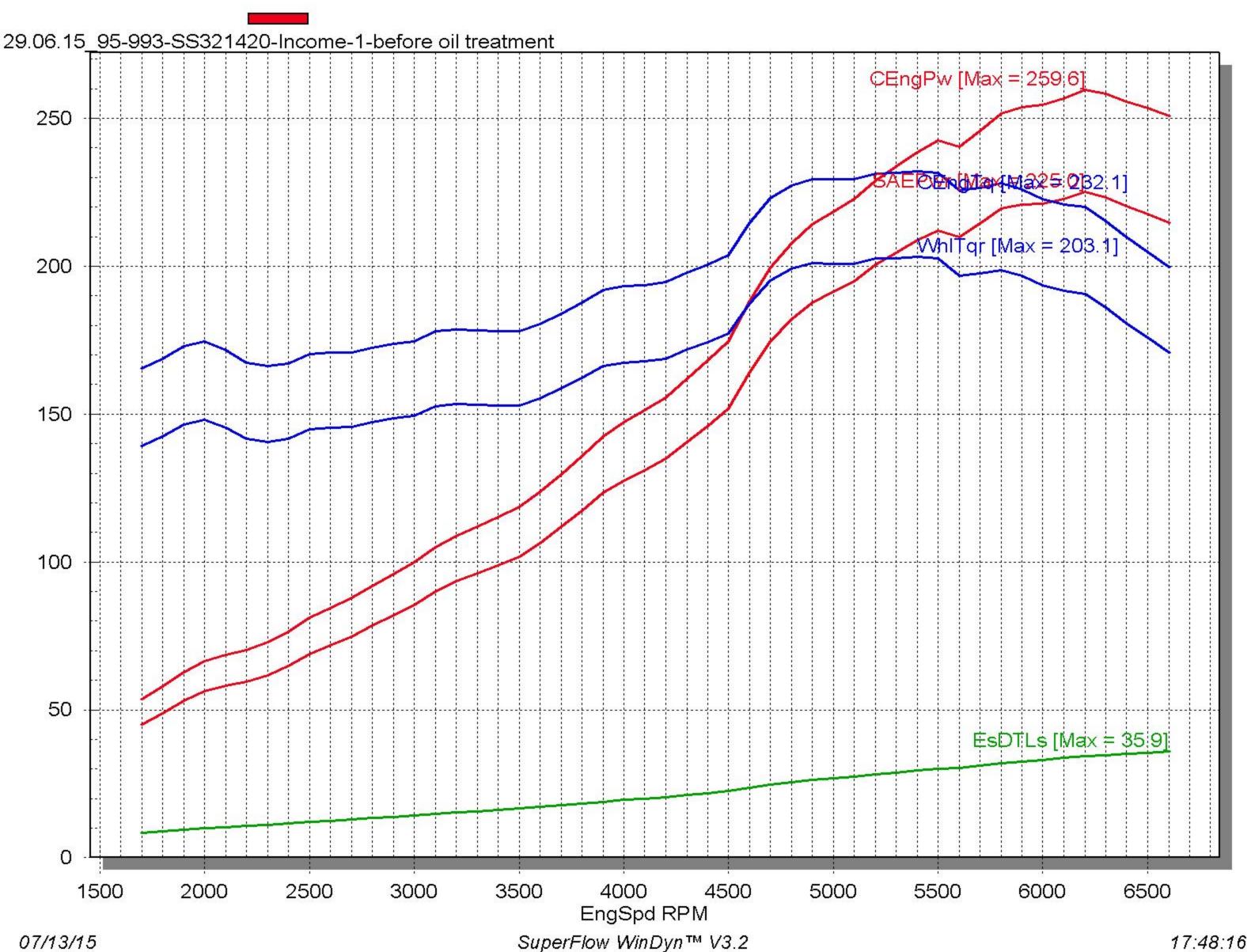
RSP-Motorsports Inc

29.06.15_95-993-SS321420-losses-before-treatment,



RSP-Motorsports Inc

29.06.15_95-993-SS321420-Income-1-before oil treatment,



Customer: RSP-Motorsports Inc. (Donna Chhangte)

VIN: known_to_LIQUI_MOLY

License: AXJD 911

Transmission:manual 6speed measured in 4 Gear Ratio 1:1

Milage:83753 km Attachment 3

Tirepressure/size Front 2.5bar 225/40 ZR18 Tirepressure/size Rear 3.0bar 285/35 ZR18

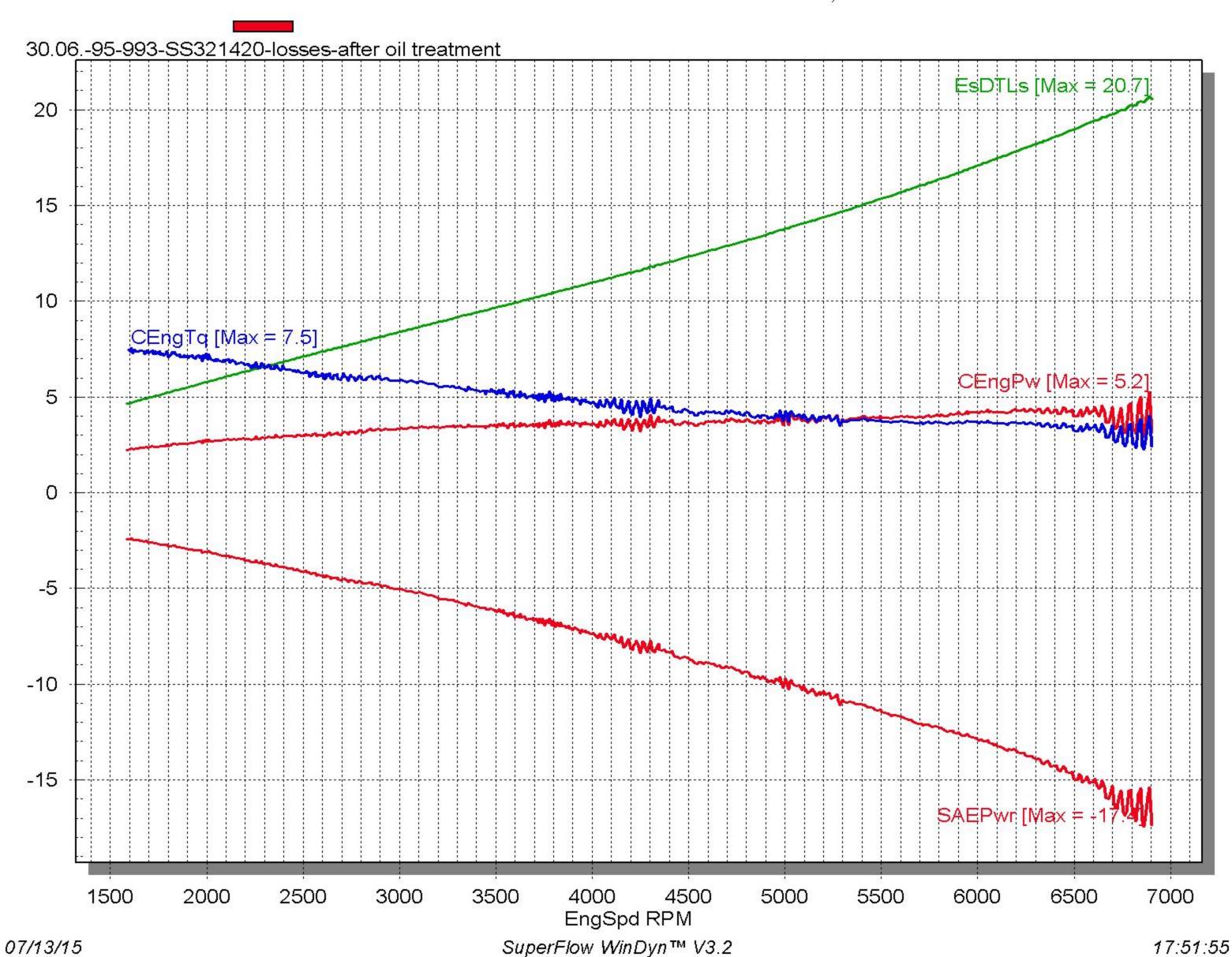
Before Oil-Treatment Inspector: Stefan Gunther

EngSpd	CEngPw	SAEPwr	EsDTLs	CEngTq	WhlTqr	AirTem
RPM	СНр	СНр	Нр	Clb-ft	Clb-ft	deg C
1700			8.4	165.4	139.1	25
1800	57.8	48.8	8.9	168.7	142.4	25
1900	62.6	53	9.5	173	146.5	25
2000	66.4	56.4	10	174.5	148	25
2100	68.6	58.2	10.4	171.6	145.5	25
2200	70.2	59.4	10.7	167.5	141.8	25
2300	72.8	61.6	11.1	166.1	140.7	25
2400	76.4	64.8	11.5	167.2	141.8	25
2500	81.1	69	12	170.4	144.9	25
2600	84.5	71.9	12.5	170.7	145.3	25
2700	87.8	74.8	12.9	170.8	145.5	25
2800	91.9	78.5	13.4	172.5	147.2	25
2900	96	82	13.8	173.8	148.6	25
3000	99.8	85.4	14.3	174.7	149.5	25
3100	105	90.1	14.8	177.9	152.6	25
3200	108.8	93.4	15.3	178.6	153.3	25
3300	112.1	96.2	15.7	178.4	153.2	25
3400	115.2	99	16.1	178	152.9	25
3500	118.6	101.9	16.5	178	153	24
3600	123.7	106.4	17.1	180.4	155.3	25
3700	129.7	111.8	17.7	184	158.7	25
3800	135.8	117.3	18.3	187.6	162.1	25
3900	142.5	123.4	19	192	166.2	25
4000	147.2	127.5	19.5	193.2	167.4	25
4100	151.2	131	20	193.6	167.8	25
4200	155.7	135	20.5	194.7	168.8	25
4300	162	140.6	21.2	197.9	171.8	25
4400	168.1	146	21.8	200.6	174.3	25
4500	174.6	151.9	22.5	203.8	177.2	25
4600	188.1	164.2	23.7	214.8	187.5	25
4700	199.5	174.5	24.7	222.9	195.1	25
4800	207.6	181.9	25.5	227.2	199	25
4900	214.1	187.6	26.2	229.5	201.1	25

218.3	191.3	26.8	229.4	200.9	25
222.7	195	27.4	229.3	200.8	25
228.9	200.5	28.1	231.2	202.5	25
233.6	204.6	28.8	231.5	202.7	25
238.6	208.9	29.5	232.1	203.1	25
242.5	212.1	30.1	231.6	202.5	25
240.5	209.8	30.4	225.5	196.8	25
245.8	214.4	31.1	226.5	197.5	25
251.7	219.5	31.9	227.9	198.8	25
253.8	221	32.5	225.9	196.7	25
254.5	221.1	33	222.8	193.6	25
256.7	222.7	33.6	221	191.8	25
259.6	225	34.3	219.9	190.6	25
258.3	223.3	34.7	215.4	186.1	25
255.6	220.3	35.1	209.8	180.8	25
253.4	217.6	35.5	204.7	175.8	25
250.9	214.7	35.9	199.6	170.8	25
	222.7 228.9 233.6 238.6 242.5 240.5 245.8 251.7 253.8 254.5 256.7 259.6 258.3 255.6 253.4	222.7 195 228.9 200.5 233.6 204.6 238.6 208.9 242.5 212.1 240.5 209.8 245.8 214.4 251.7 219.5 253.8 221 254.5 221.1 256.7 222.7 259.6 225 258.3 223.3 255.6 220.3 253.4 217.6	222.7 195 27.4 228.9 200.5 28.1 233.6 204.6 28.8 238.6 208.9 29.5 242.5 212.1 30.1 240.5 209.8 30.4 245.8 214.4 31.1 251.7 219.5 31.9 253.8 221 32.5 254.5 221.1 33 256.7 222.7 33.6 259.6 225 34.3 258.3 223.3 34.7 255.6 220.3 35.1 253.4 217.6 35.5	222.7 195 27.4 229.3 228.9 200.5 28.1 231.2 233.6 204.6 28.8 231.5 238.6 208.9 29.5 232.1 242.5 212.1 30.1 231.6 240.5 209.8 30.4 225.5 245.8 214.4 31.1 226.5 251.7 219.5 31.9 227.9 253.8 221 32.5 225.9 254.5 221.1 33 222.8 256.7 222.7 33.6 221 259.6 225 34.3 219.9 258.3 223.3 34.7 215.4 255.6 220.3 35.1 209.8 253.4 217.6 35.5 204.7	222.7 195 27.4 229.3 200.8 228.9 200.5 28.1 231.2 202.5 233.6 204.6 28.8 231.5 202.7 238.6 208.9 29.5 232.1 203.1 242.5 212.1 30.1 231.6 202.5 240.5 209.8 30.4 225.5 196.8 245.8 214.4 31.1 226.5 197.5 251.7 219.5 31.9 227.9 198.8 253.8 221 32.5 225.9 196.7 254.5 221.1 33 222.8 193.6 256.7 222.7 33.6 221 191.8 259.6 225 34.3 219.9 190.6 258.3 223.3 34.7 215.4 186.1 255.6 220.3 35.1 209.8 180.8 253.4 217.6 35.5 204.7 175.8

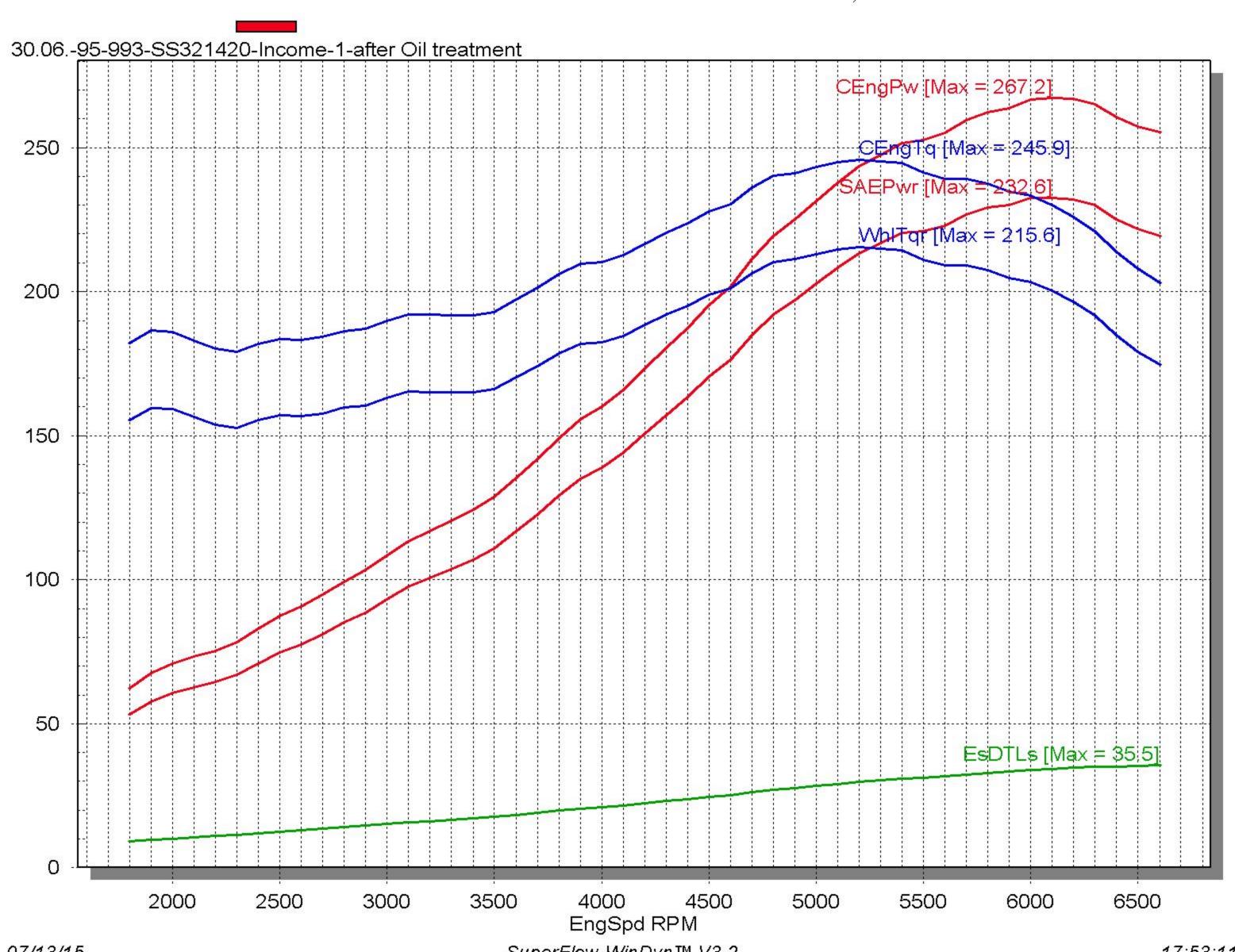
RSP-Motorsports Inc

30.06.-95-993-SS321420-losses-after oil treatment,



RSP-Motorsports Inc

30.06.-95-993-SS321420-Income-1-after Oil treatment,



Customer: RSP Motorsports Inc. (Donna Chhangte)

VIN:known_to_LIQUI_MOLY

License: AXJD 911

Transmission:manual 6speed measured in 4 Gear ratio 1:1

Milage:83753 km

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

5000

5100

5200

5300

Tire:225/40 ZR18 2.5bar Rear:285/35 ZR18 3.0bar

Attachment 6

155.3

159.7

159.2

156.4

153.7

152.7

155.3

156.7

157.8

159.8

160.4

163.1

165.3

165.2

165.1

165.2

166.1

170.3

178.6

181.9

182.5

184.7

188.3

192

195

198.9

201.3

206.4

210.3

211.2

214.6

215.6

214.8

213

174

157

AirTem

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WhlTqr

Clb-ft

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186

186.6

183.1

180.1

181.7

183.5

183.2

184.2

186.3

189.8

192.1

191.9

191.8

191.9

192.9

197.4

201.3

206.1

209.7

210.3

212.6

216.6

220.5

223.7

227.9

230.4

240.1

241.2

243.1

244.8

245.9

245.1

236

187

179

Notice:with Liqui Molly Oil-Treatment

70.8

73.2

75.4

78.4

87.3

90.7

94.7

99.3

103.3

108.4

113.4

116.9

120.5

124.2

128.6

135.3

141.8

149.1

155.7

160.2

173.2

180.5

187.4

195.3

201.8

211.2

219.5

231.5

237.8

243.5

247.4

225

166

83

Stock:270n	p@6100rp	m 2431	τ-ibs	@50001	rpm		
EngSpd	CEngPw	SAEPw	/r	EsDTLs		CEngTo	7
RPM	СНр	СНр		Нр		Clb-ft	
1800	62.4	ļ	53.2		9.1		1
1900	67.5	,	57.8		9.7	18	36

60.6

62.5

64.4

66.9

74.7

77.6

81.1

85.2

88.6

93.2

97.6

100.6

103.7

106.9

110.7

116.7

122.6

129.2

135.1

144.2

150.6

157.2

163.4

170.4

176.3

184.7

192.2

197.1

202.8

208.4

213.4

216.8

139

71

10.1

10.6

11.4

12.5

13.5

14.5

15.1

15.7

16.2

16.7

17.1

17.7

18.4

19.8

20.4

21.6

22.4

23.1

23.8

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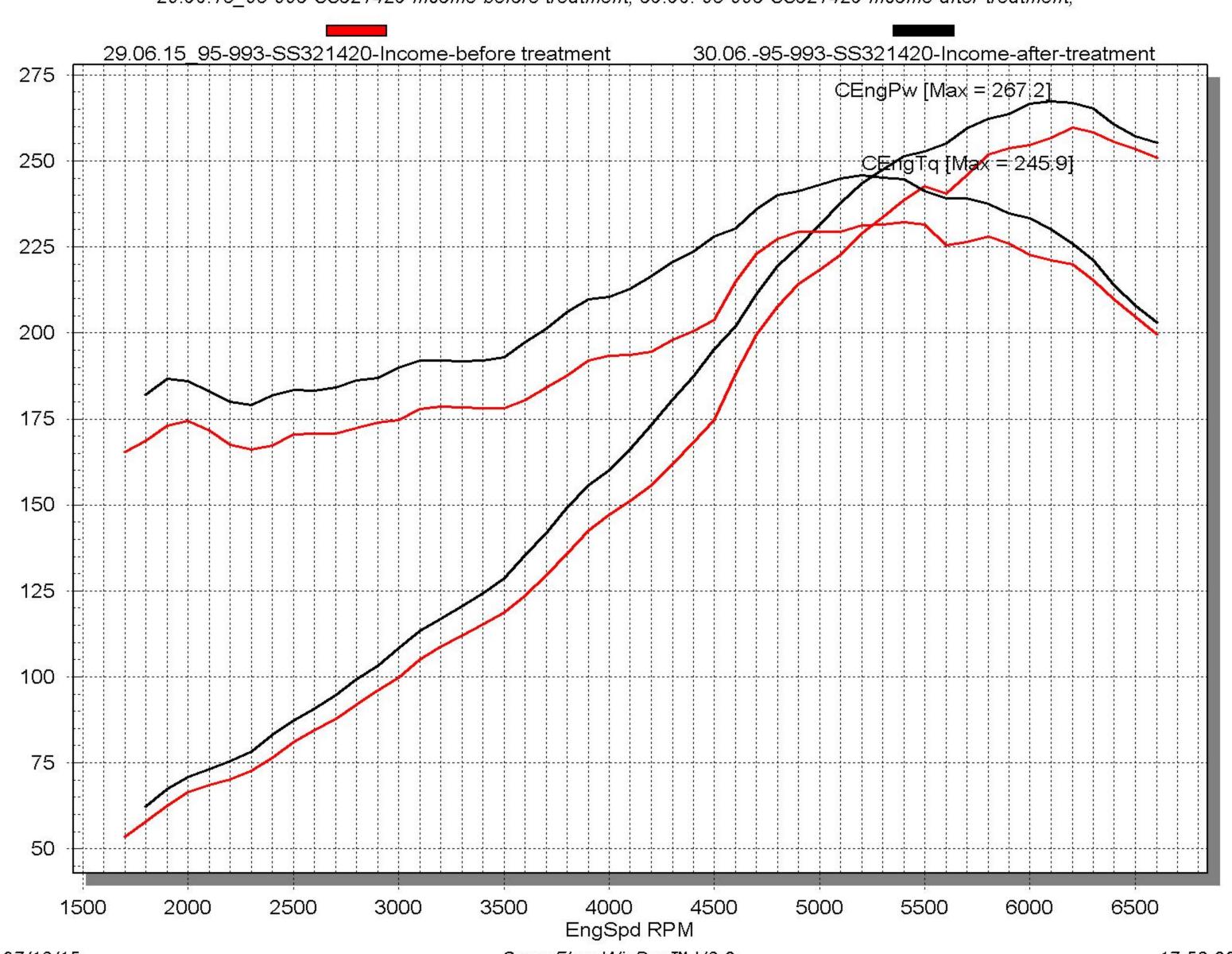
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5400	251.5	220.3	30.9	244.6	214.2	21
5500	252.7	221.1	31.3	241.3	211.1	21
5600	255	222.9	31.8	239.2	209.1	21
5700	259.5	226.8	32.4	239.1	209	22
5800	262.3	229.1	32.9	237.5	207.4	21
5900	263.7	230	33.3	234.7	204.7	21
6000	266.6	232.4	33.9	233.4	203.4	21
6100	267.2	232.6	34.3	230.1	200.2	21
6200	266.8	231.8	34.6	226	196.4	21
6300	265.2	229.9	34.9	221.1	191.7	21
6400	260.6	225.2	35	213.8	184.8	21
6500	257.2	221.7	35.2	207.9	179.2	21
6600	255.3	219.5	35.5	203.1	174.6	21

RSP-Motorsports Inc

29.06.15_95-993-SS321420-Income-before treatment, 30.06.-95-993-SS321420-Income-after-treatment,



Engine Treatment with Liqui Moly

Vehicle:1995

VIN:known_to_LIQUI_MOLY

Licence:AXJD 911

Transmission:manual 6 speed

Milage:83753km

Stock 270HP@6100rpm 243ft/lbs@5000rpm

measured in 4th Gear Ratio 1:1

Ambient Temperature: 22-25°Celsius

Attachment 8

RPM	Caar	Thurstella 0/	Car Speed	Horsepower	Torque	Ramp-Dyno	Gain	n Gain (HP)	Coin (Towns)	Gain (Torque)
KPIVI	Gear	Throttle %	Km/h	HP	ft/lbs	%	(HP)	%	Gain (Torque)	%
2080	3	7.00	50.00	10.80	33.50	1.00				
2080	3	7.00	50.00	10.80	35.50	1.00	0.00 HP	0	+2.00 ft/lbs	+5.9%
2880	3	10.00	70.00	14.40	33.50	1.00				
2880	3	10.00	70.00	16.10	36.80	1.00	+1.70 HP	+11.8%	+3.3 ft/lbs	+9.8%
									-	
3320	3	10.00	80.00	16.80	33.00	1.00				
3320	3	10.00	80.00	20.10	37.20	1.00	+3.30 HP	+19.6%	+4.2 ft/lbs	+12.7%
2640	4	10.00	80.00	16.90	32.00	2.00				
2640	4	10.00	80.00	18.70	37.10	2.00	+1.80 HP	+10.6%	+5.1 ft/lbs	+15.9%
3280	4	11.00	100.00	22.00	36.00	2.00				
							. 2 22 112	.44 50/	. 4 4 6 11	.11.20/
3280	4	11.00	100.00	25.20	40.10	2.00	+3.20 HP	+14.5%	+4.1 ft-lbs	+11.3%
3920	4	13.00	120.00	30.00	41.00	2.00				
3920	4	13.00	120.00	32.80	45.30	2.00	+2.80 HP	+9.3%	+4.3 ft/lbs	+10.4%
3200	5	13.00	120.00	30.50	39.00	2.00				
3200	5	13.00	120.00	35.00	43.20	2.00	+4.5 HP	+10.7%	+4.2 ft/lbs	+10.7%
3760	5	15.00	140.00	38.00	42.50	2.00				
							. 2 22 112	. 5. 70/		.0.20/
3760	5	15.00	140.00	40.20	46.00	2.00	+2.20 HP	+5.7%	+3.5 ft/lbs	+8.2%
3160	6	15.00	140.00	42.00	46.50	2.00				
3160	6	15.00	140.00	40.50	45.80	2.00	-1.5 HP	-0.37%	- 0.7 ft/lbs	-1.6%
3600	6	16.00	160.00	47.00	47.00	2.00				
							. 2 5 115	. 5. 50/	. 2 5 6 (1)	.7.40/
3600	6	16.00	160.00	49.50	50.50	2.00	+2.5 HP	+5.3%	+3.5 ft/lbs	+7.4%

Fuelconsumption Test

Engine Treatment with Liqui Moly

Vehicle:1995

VIN:known_to_LIQUI_MOLY

Licence: AXJD 911

Transmission:manual 6 speed

Milage:83753km

Stock 270HP@6100rpm 243ft/lbs@5000rpm

measured in 4th Gear Ratio 1:1

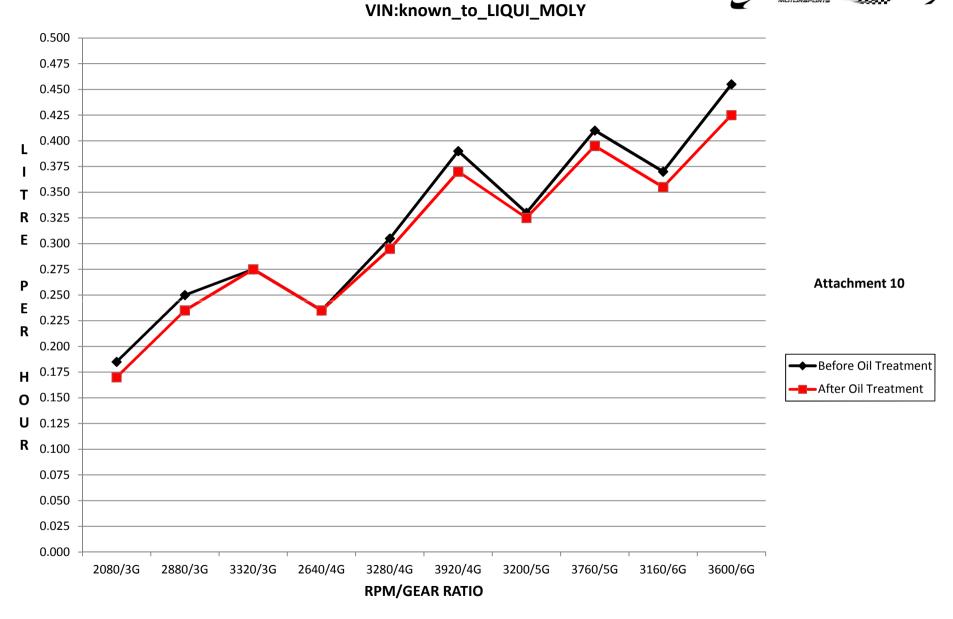
Ambient Temperature: 22-25°Celsius

Attachment 9

RPM	Gear	Car Speed Km/h	Ramp-Dyno %	Fuel consumption L/H	Gain %
2080	3	50.00	1.00	0.185	
2080	3	50.00	1.00	0.170	-8.82%
2880	3	70.00	1.00	0.250	
2880	3	70.00	1.00	0.235	-6.38%
3320	3	80.00	1.00	0.275	
3320	3	80.00	1.00	0.275	0.00%
2640	4	80.00	2.00	0.235	
2640	4	80.00	2.00	0.235	0.00%
3280	4	100.00	2.00	0.305	
3280	4	100.00	2.00	0.295	-3.38%
3920	4	120.00	2.00	0.390	
3920	4	120.00	2.00	0.370	-5.40%
3200	5	120.00	2.00	0.330	
3200	5	120.00	2.00	0.325	-1.53%
3760	5	140.00	2.00	0.410	
3760	5	140.00	2.00	0.395	-3.79%
3160	6	140.00	2.00	0.370	
3160	6	140.00	2.00	0.355	-4.22%
3600	6	160.00	2.00	0.455	
3600	6	160.00	2.00	0.425	-7.05%

before Oil Treatment after Oil Treatment

Fuel Consumption Test - Before and After Liqui Moly Engine Treatment 1995 Porsche 911 Carrera





Pro-Line Engine Flush

DESCRIPTION:

Highly effective detergent additives in Engine Flush clean interior engine before oil change.

PROPERTIES:

Gentle and rapid cleaning.

Neutral to seals and other materials installed in the engine Compatible with catalytic converters.

Highly economical.

No additional environmental pollution.

Simple to use.

BENEFITS:

Removes Deposits, residues from all 4-stroke gasoline engines and diesel engines.

Dissolves sludge and lacquer and isolates solid particles and liquid contaminants.

Improves the combustion process and restores full engine performance.

Prevents corrosion of unprotected metal surfaces.

Recovers oil lubricating properties.

APPLICATION:

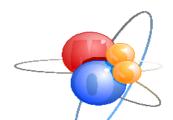
Suitable for all gas and diesel engines.

INSTRUCTIONS:

Add to engine oil before engine oil change. Let engine run on idle speed for 10 minutes. Drain oil, change oil filter and refill with fresh oil of high quality. Contents sufficient for 1.3 gal (5liters) sump capacity. Fully compatible with all commercially available engine oils.



Pro-Line Engine Flush 500ml can Part no. LM2037 Case Qty 6 cans.





LEICHTLAUF HIGH TECH 5W-40

DESCRIPTION:

Modern top class low-friction engine oil for all-season use in gasoline and diesel engines without diesel particulate filters (DPF). The combination of innovative base oils – based on synthesis technology and the latest additive technology – guarantees an engine oil that reduces oil and fuel consumption and that ensures fast lubrication of the engine. Depending on the manufacturer instructions, oil change intervals of up to 40,000 km are possible.

PROPERTIES:

- smooth engine running
- rapid oil delivery at low temperatures
- optimum oil pressure at all engine speeds
- high lubrication reliability at high and low temperatures
- high shear and ageing stability
- saves petrol and reduces pollutant emission
- long engine service life due to high level of protection against wear
- outstanding engine cleanliness
- tested with catalytic converters and performance proved with turbool
- miscible and compatible with commercially-available engine oils.

APPLICATION:

Ideally suited for modern gasoline and diesel engines with multi-valve technology, turbocharger and with or without charge air cooling. Especially suitable where there are long intervals between changes and heavy duty engine requirements.

INSTRUCTIONS:

The operating instructions of the vehicle and engine manufacturers must be followed.



Specifications / Approvals:

API SN/CF

ACEA A3-08/B4-08

BMW Longlife-01

MB-Approval 229.5

Porsche A40

Renault RN 0700, 0710

VW 502 00/505 00

LIQUI MOLY also recommends this product for vehicles for which the following specifications are required:

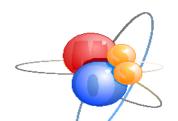
Opel GM LL-B025

Fiat 9.55535-H2. 9.55535-M2.

9.55535-N2

Peugeot/Citroen (PSA) B71 2294,

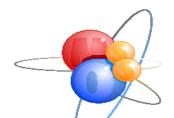
B71 2296





LEICHTLAUF HIGH TECH 5W-40 5 Liter Part no. LM2332 Case Qty 4 Jugs

1 Liter Part no. LM2331 Case Qty 6 Jugs



PRODUKTINFORMATION



Cera Tec

DESCRIPTION

Micro ceramic solid lubricant suspension based on hexagonal boron nitride (BN) in mineral oil. The laminar graphite-similar structure reduces friction and wear and prevents direct metal-to-metal contact. The $< 0.5 \, \mu m$ particle size guarantees optimal filter flow properties and protects against depositing of solid lubricant particles.

PROPERTIES

- Mixable with all commercially available motor oils
- Stable even under high thermal and dynamic permanent loads
- No deposits and absolutely compatible with all commonly used filter systems
- Resists extremely high and low temperatures
- Reduces fuel consumption
- Increases engine service life
- Increases smooth operation
- Stable under extreme pressures
- Chemically inert
- Higher performance gain due to reduced friction
- Does not increase the phosphorous and sulfur content of the motor oil
- Tested with catalytic converters and diesel particle filter

TECHNICAL DATA

 $\begin{array}{lll} \text{Base} & : \text{ BN micro ceramic} \\ \text{Color:} & : \text{ Yellowish white} \\ \text{Ceramic particle size} & : \text{ Majority} < 0.5 \ \mu\text{m} \\ \end{array}$

Temperature stability of the

ceramic particles : To +1,200 °C

Density at +20 °C : 0-89 - 0.90 DIN 51757 g/cm³ Viscosity at +20 °C : ~300 mPa*s DIN 51398 Flash point : 200 °C **DIN ISO 2592** °C Pour point : -20 **DIN ISO 3016**

APPLICATIONS

Added to the lubricating oil of engines, compressors, pumps and transmissions. Excellent for use in passenger car and commercial vehicle engines (gasoline and discal). Mixable with all commercially excellent patternile.

diesel). Mixable with all commercially available motor oils.

APPLICATION

300 ml will treat up to 5 liters of motor oil. Long-term effect up to 50,000 km.

Note:

Not suitable for use with wet clutches!

AVAILABLE

PACK SIZES Cera Tec 300 ml can Part no. 3721 D-GB-I-E-P-NL-F-GR-RUS

300 ml can Part no. 2321 Korea-D-GB-I-E-P

300 ml can Part no. 7181 D-GR-PL-TR-CZ-RO-H-BG

PI 05/05/13



Motor Oil Saver

DESCRIPTION:

Rejuvenates rubber and plastic engine seals and reduces oil consumption via the piston rings and valve guides; counteracts the loss in viscosity of motor oils. Puts an end to environmentally pollutant oil patches on the road and in the garage.

PROPERTIES:

Prevents blue, smoky exhaust fumes. Prevents leaks due to leaks at elastomeric seals. Regenerates engine seals made of plastic and rubber. Reduces engine noises. Prevents pollution of the environment due to oil dripping from the engine. Reduces oil consumption in gasoline and diesel engines.

BENEFITS:

Lower oil consumption, better oil pressure. Elimination of blue exhaust smoke due to oil burning. Postponement of costly engine repairs. No more unsightly, soil polluting oil spots.

APPLICATION:

For all gasoline and diesel engines. Compatible with all commercially available motor oils.

INSTRUCTIONS:

One 300 ml can of Motor Oil Saver is sufficient up to 5 liters of motor oil. The product can be added at any time. After adding, run the engine until warm. Sealing first takes effect after about 400-600 miles. To guarantee a lasting effect, add Motor Oil Saver after each oil change.



Motor Oil Saver 300ml can Part no. LM2020 Case Qty 20 cans.

