

To:	All X-1R distributors	From:	Nigel (Mac) McKenzie	
Cc:		Date	5 th September 2019	
Subje	ect: Increase of CVT fluids anti-	shudder protection	on – JASO M349 Proton Test	t

The good reports regarding the effectiveness of the X-1R CVT Treatment continue to flow in. Users of the product are waxing lyrical about the ability of our newest item to reduce shuddering and restore a 'like-new' feeling to even well-worn Continuous Variable Transmissions.

We like the anecdotal information we receive but in the real world we need to have real scientific data to back our claims. Therefore we are undertaking a series of test on our CVT Treatment using the Japanese Automotive Standards Organizations (JASO) M349 protocol at the respected K.K.SVC Tokyo testing facility.

The results of our second JASO M349 anti shudder test are now in. For the second test we used a commonly used CVT lubricant used by Proton in Malaysia and once again I am pleased to announce that our product was capable of significantly improving the ability of the lubricant in the CVT to resist shudder. The report is attached but in Summary at lower speeds we managed to stop the onset of shudder from 108 hours to over 300 hours. Which is of course significant.

Nigel McKenzie

Attached report K.K. SVC report No. 312207



Test Results Report

Report No. 312207 and No.312512

FOR X1R Global Limited

4. September 2019

Submitted by K.K. SVC Tokyo

4052-2, Nakatsu, Aikawa-cho, Aiko-gun, Kanagawa-ken 243-0303, JAPAN 1. Test method LVFA Friction Test: JASO M349

2. Test sample code:

PROTON GEAR OIL FOR CVT (No Add)

PROTON GEAR OIL FOR CVT (with your additive)

3. Test results

Attached sheet

Submitted by: K.K. SVC Tokyo Technical Service Center Manager, Business Promotion Team

Atsushi Sugouchi

$2\,.\,$ $d\mu/dV$ anti-shudder service life Report

2.1 d μ /dV (0.3) result $\,$ [Enter a value of d μ /dV (0.3) times 1000 $\,$]

Fluid type		PROTON GEAR OIL FOR CVT (With your additive)			PROTON GEAR OIL FOR CVT (No add)		
Performance test temp		40°C	80°C	120°C	40°C	80°C	120°C
	0 h	5.3	4.8	15.3	12.4	7.2	15.3
	24 h	19.8	14.2	16.5	27.5	21.4	19.0
	30 h	22.1	13.9	17.8	26.0	19.3	18.6
	36 h	24.6	17.3	19.1	26.4	19.5	19.5
	42 h	24.0	17.2	19.3	25.9	19.5	18.9
	48 h	25.1	16.2	17.3	23.6	17.3	15.7
	54 h	23.0	14.6	16.0	21.0	13.9	14.7
	60 h	21.4	11.0	14.3	19.0	12.9	13.0
	72 h	16.7	5.7	8.4	18.5	10.3	11.9
Cumulative	84 h	13.7	2.5	5.5	16.1	7.6	7.4
total time of	96 h	14.9	1.8	5.7	13.9	2.7	4.6
durability test	108 h	13.9	1.8	3.9	12.8	-0.1	1.5
	120 h	14.9	2.4	4.4	11.8	-2.8	-2.7
	144 h	14.4	2.6	3.3	11.2	-4.0	-6.1
	168 h	15.3	5.2	4.9	12.3	-3.8	-6.5
	192 h	16.0	7.0	6.2	12.4	-3.5	-6.5
	216 h	17.0	7.2	7.4	12.5	-4.2	-5.8
	240 h	16.4	8.7	7.2	14.0	-2.6	-5.5
	264 h	16.1	8.8	8.3	13.7	-3.0	-4.9
	288 h	15.0	8.7	8.9	13.0	-2.6	-3.7
	300 h	15.9	9.4	8.9	12.6	-3.3	-4.3

 $\underline{\rm 2.2~d\,\mu\,/dV\,(0.9)}$ result $\,$ [Enter a value of d $\mu\,/{\rm dV\,(0.9)}$ times 1000]

Fluid type		PROTON GEAR OIL FOR CVT (With your additive)			PROTON GEAR OIL FOR CVT (No add)		
Performance test temp		40°C	80°C	120°C	40°C	80°C	120°C
	0 h	3.8	0.9	0.1	5.9	0.5	-0.0
	24 h	9.2	2.9	0.3	10.6	5.6	2.2
	30 h	10.3	3.5	0.4	10.4	5.6	1.9
	36 h	11.3	4.5	1.1	10.7	5.6	2.2
	42 h	11.5	5.1	1.3	10.7	5.7	2.3
	48 h	12.3	4.6	0.9	10.7	5.0	1.3
	54 h	12.2	4.7	0.7	10.7	4.0	0.0
	60 h	12.3	4.3	0.5	10.9	3.3	-0.0
	72 h	11.5	3.1	0.3	11.6	3.7	-0.2
Cumulative	84 h	12.1	2.6	0.2	12.0	2.6	-0.6
total time of	96 h	11.7	2.3	0.1	12.5	2.3	-1.9
durability test	108 h	11.8	2.5	0.2	12.6	2.1	-2.7
	120 h	11.5	2.4	0.1	13.4	1.7	-2.0
	144 h	11.6	2.7	0.3	14.3	1.5	-2.2
	168 h	11.8	3.2	0.4	14.9	1.0	-1.8
	192 h	11.9	3.5	0.5	15.7	0.4	-1.4
	216 h	11.7	4.1	0.7	16.0	-0.1	-0.9
	240 h	11.3	4.2	0.9	16.0	-0.3	-0.1
	264 h	12.0	4.3	1.1	16.6	-0.7	-0.1
	288 h	12.0	4.1	0.6	16.2	-0.5	-0.1
	300 h	11.6	3.7	0.2	16.8	-0.9	-0.1

3.1 Anti-shudder service life d μ /dV (0.3)

dμ/dV xalue specified by t s/m×1000		
PROTON GEAR OIL FOR CVT (With your additive)	40°C	(300h Over)
	80°C	(300h Over)
	120°C	(300h Over)
PROTON GEAR OIL	40°C	(300h Over)
FOR CVT	80°C	108 h
(No add)	120°C	120 h

3.2 Anti-shudder service life d μ /dV (0.9)

dμ/dV xalue specified by t s/m×1000		
PROTON GEAR OIL FOR CVT (With your additive)	40°C	(300h Over)
	80°C	(300h Over)
	120°C	(300h Over)
PROTON GEAR OIL	40°C	(300h Over)
FOR CVT	80°C	216 h
(No add)	120°C	60 h