



# TIP Sheet

Number: 13-01

Date: 11/6/2012

## Ski-Doo Race Department

**WARNING:** This information relates to the preparation and use of snowmobiles in competitive events. Bombardier Recreational Products (BRP) disclaims liability for all damages and/or injuries resulting from the improper use of the contents. We strongly recommend that these modifications be carried out and/or verified by a highly skilled professional racing technician. It is understood that racing or modifications of any Bombardier produced snowmobile voids the vehicle warranty and that such modifications may render use of the vehicle illegal in other than sanctioned racing events under existing federal, provincial and state regulations.

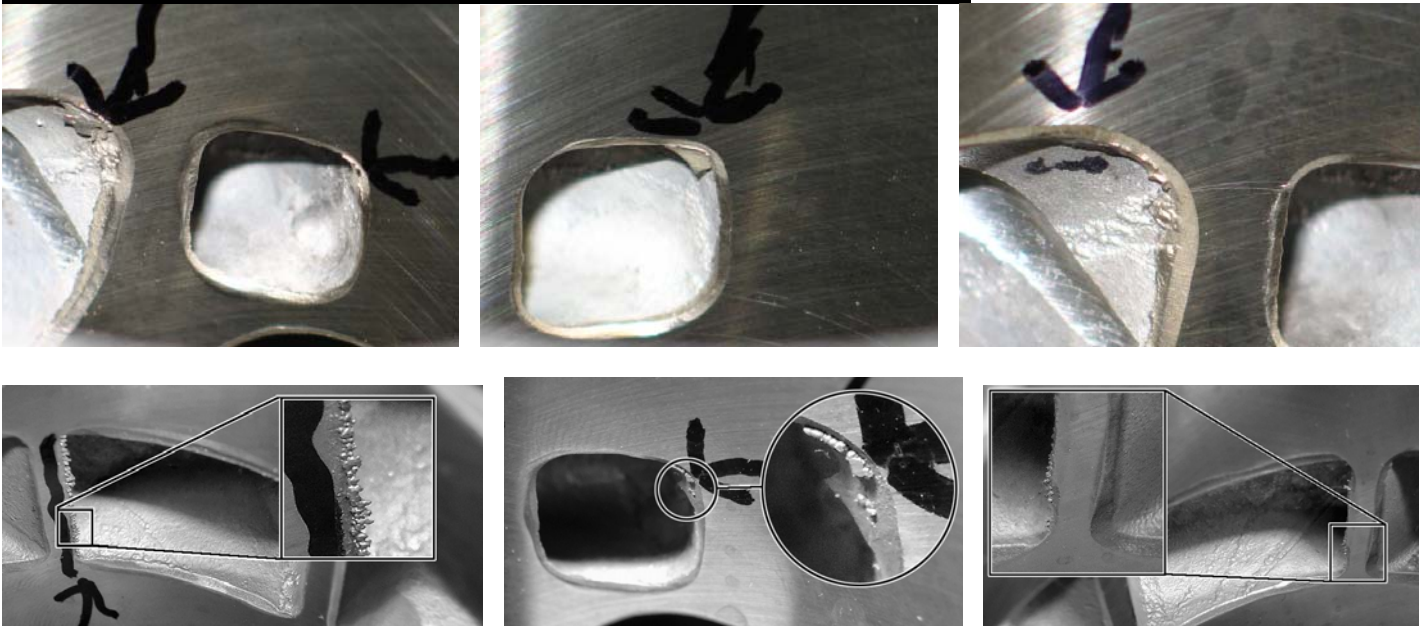
### **2013 MXZX 600RS ENGINE ISSUE**

It has been discovered, during the critical final stage of cleaning and deburring of cylinders, some transfer and/or exhaust ports may have not been properly finished. This has resulted in small fragments of Nikasil or casting material to remain in the ports. This material may come loose once the engine is started and cause damage to cylinders, pistons and head inserts.

### **INSPECTION PROCEDURE**

Remove approx 2 quarts of coolant. Remove head cover and inserts. Using a flashlight and small mirror, examine all transfer and exhaust ports of both cylinders. If you see any fragmented material in **ANY** of the ports, you will need to remove the remaining coolant and remove the cylinders. The photos below illustrate some examples of the issue.

### **EXAMPLES OF AFFECTED CYLINDERS (need to be exchanged)**



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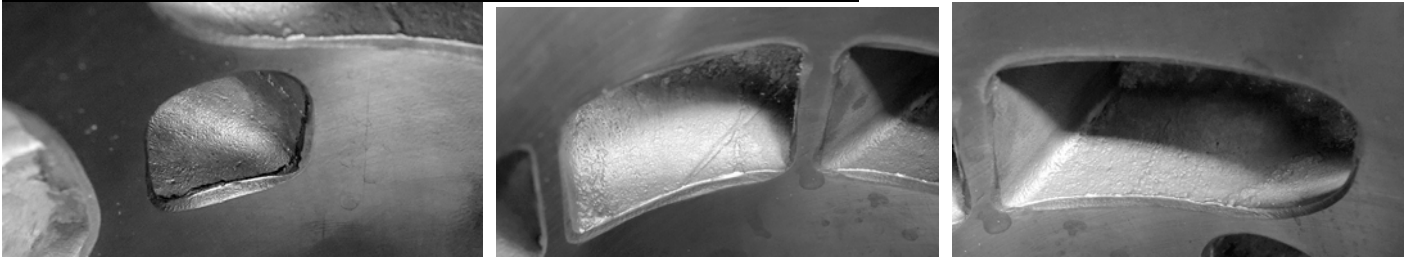


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## EXAMPLES OF APPROVED CYLINDERS (no action needed)



## REPAIR PROCEDURE

If you determine your engine has cylinder(s) with the issue, BRP Ski Doo is offering a cylinder exchange program.

**DO NOT ORDER NEW CYLINDERS** and **PLEASE DO NOT ATTEMPT TO REPAIR YOURSELF**. Attempting to repair the issue yourself is against ISR rules and can lead to disqualification during a race event. If you are unsure your engine has the affected cylinders, remove the cylinders and have a BRP Technician inspect them.

## CYLINDER EXCHANGE PROGRAM (if you are attending Duluth ISOC National event)

BRP Technicians will be available at Planet X (Aurora MN), Quadna Mountain Park (Hill City MN), and the ISOC National Sno X event at Duluth MN. to assist with the program. After you have removed the affected cylinder(s), remove the O-rings, RAVE valve, base gasket and the reed cage assy, and bring the cylinder(s) and base gasket to the BRP Technician at one of the designated locations. Cylinders will be exchanged along with a new base gasket.

**IMPORTANT: You will be supplied with the same sized base gasket and you must provide the vehicle VIN # and Engine Serial # to exchange cylinders.**

## DATES FOR EXCHANGE:

- Planet X (Aurora MN.) November 12<sup>th</sup> thru the 21<sup>st</sup>.
- Quadna Mountain Park (Hill City MN.) November 16<sup>th</sup> thru the 19<sup>th</sup>.
- ISOC National Event (Duluth MN.) November 23<sup>rd</sup> thru 25<sup>th</sup>.

## CYLINDER EXCHANGE PROGRAM (if you are NOT attending Duluth ISOC National event)

The Exchange Program procedure is being finalized and will be available November 12<sup>th</sup>. Contact your Ski Doo dealer.

Again, the Ski Doo Race Dept. apologizes for any inconvenience this may have caused.

If you have any questions, feel free to contact:

*Tom Lawrence*

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