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ROSCOSMOS IDENTIFIES CAUSE OF

Soyuz Failure

By Andrea Gini (http://www.spacesafetymagazine.com /author/ginian/) on September 9, 2011 in News (http://www.spacesafetymagazine.com/news/)





(HTTP://WWW.SPACESAFETYMAGAZINE.COM /2011/09/09/ROSCOSMOS-IDENTIFIES-CAUSE-OF-SOYUZ-FAILURE/PICTOO01/) HORIZONTAL ASSEMBLY OF A SOYUZ CORE BOOSTER WITH THIRD STAGE (CREDITS: ROSCOSMOS).

Russian space agency Roscosmos released а press statement (http://www.federalspace.ru/main.php?id=2&nid=17835) on the failure of the third stage of a Soyuz rocket, which was carrying Progress M12-M to the ISS on August 24.

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> SIQNUFAR HAFFULANINGH OBKTHE TRANSPORT OF CARGO SPACE-CRAFT "PROGRESS M-12M" UN-DER THE SUPERVISION OF THE DIRECTOR OF THE STATE SCIENtific Center, Federal State Unitary ENTERPRISE "RE-SEARCH CENTER NAMED AFTER MV Keldysh," Academician AS KOROTEEV COMPLETED ITS WORK, WHICH REVEALED THE REASONS FOR THE EMERGENCY STARTER BOOSTER (LV), "SOYUZ-U"24 August 2011.

> AS A RESULT OF ORGANIZA-TIONAL AND TECHNICAL MEA-SURES, THE COMMISSION FOUND THAT THE PREPARATION OF ASSEMBLIES, SYSTEMS OF TECHNICAL AND LAUNCH SITE AND LAUNCH "SOYUZ-U" CAR-RIED OUT IN ACCORDANCE WITH **OPERATIONAL** DOCUMENTA-TION.

> The start and flight of the FIRST AND SECOND STAGES OF THE LAUNCH VEHICLE TOOK PLACE NORMALLY, THE CONTROL SYSTEM TO ENSURE SUSTAINED FLIGHT OF A ROCKET TO THE DE-SIRED PATH. SEPARATION OF THE FIRST TWO STAGES WENT THEWELL FOR STANDARD SCHEME AT THE ESTIMATED TIME WITHOUT ANY PROBLEMS.

On the basis of analyzing THE BEHAVIOR OF THE PARAME-TERS CHARACTERIZING THE OP-ERATION OF THE PROPULSION scosmos Identifies Cause of Soyuz Failure We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that

RESULTS TELEMETRY DATA IT IS CONCLUDED THAT REDUCING CONSUMPTION OF FUEL IN THE GAS GENERATOR DUE TO CON-TAMINATION TRACT OF ITS SUBmission. This led to a breach OF WORKING CONDITIONS AND REDUCE THE ENGINE PARAME-TERS, IT SHUT DOWN ON COM-MAND *"Emergency engine* SHUTDOWN."

Commission members con-CLUDED THAT THIS NEW MANU-FACTURING DEFECT IS RANdom. However, the decision ON HIS SKILLS AS A UNIT, SHOULD BE TAKEN ONLY AFTER CROSS-CHECKING AND FOLLOW-UP OF A SPECIAL PROGRAM JUST MANUFACTURED GRAZED **PROPULSION.**

THE COMMISSION RECOM-MENDED THE DEVELOPMENT OF A COHERENT PROGRAM TO CON-TROL THIS TYPE OF BRUSHED MOTORS AND GIVE OPINION ON THE POSSIBILITY OF USING EACH OF THEM FOR OTHER PURPOSES.

COMMISSION PROPOSED TO DEVELOP AND IMPLEMENT AD-DITIONAL MEASURES TO CON-TROL THE STATUS OF UNITS OF NEW ENGINES IN THEIR DESIGN AND MANUFACTURING, INCLUDing install CCTV in the WORKPLACE IN THE FINAL AS-SEMBLY SHOPS.

The result of the Russian

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TOBOGETEHE INTERDEPARTMEN-TAL COMMISSION REQUESTED A TIMETABLE FOR IMPROVEMENTS AND DETERMINE THE READI-NESS OF CARRIER ROCKETS OF THE "UNION" TO START, BASED ON WHICH THE PROGRAM WILL BE PLANNED FUTURE LAUNCH OF SPACECRAFT, INCLUDING MANNED SUBJECTS.

No information has been released so far about when the Soyuz rocket will resume its flying schedule.

ABOUT THE AUTHOR



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Andrea Gini is a content strategy consultant specialized in companies of the space sector. He is founder of Space Safety Magazine, where he held the position of Editor-in-Chief until March 2015.

Between 2011 and 2013 he worked in the European Space Agency in the Independent Safety Office, which overviews the utilization of the Interna-

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> He previouslyhapproved tast. Soft@k ware Developer, IT Consultant, and trainer of Java-related technologies.

Andrea holds a BSc and an MSc in computer science from the University of Milano, a Master in Communication of Science from the International School for Advanced Studies of Trieste and a MSc in Space Studies from the International Space University.

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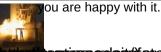
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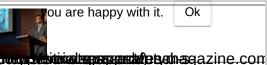
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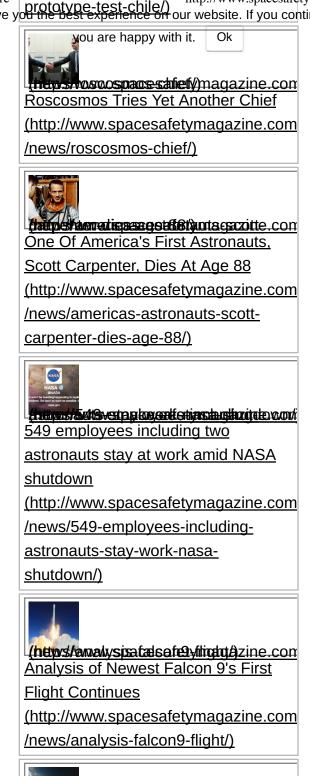
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