

Magnetic Particle Inspection Report

Nina Yang
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Test Date:	Sat, 12 Apr 2025
Project:	ExxonMobil Refinery Turnaround - Phase 2
Location:	Baytown, Texas, USA
Specification:	ASTM A106 Grade B - Seamless Carbon Steel Pipe
Acceptance Criteria:	ASME Section V, Article 7; Acceptance per ASME B31.3
Procedure No:	MPH-EXX-0425-Rev2

SPECIMEN DATA

Material:	ASTM A516 Grade 70 Carbon Steel	Drawing No:	DWG-2025-MPI-0089
Testing Temperature:	72°F (22°C)	Welding Process:	SMAW (Shielded Metal Arc Welding)
Surface Condition:	As-welded, light grinding performed	Weld Preparation:	Single-V groove, 60° bevel
Request For Inspection (RFI) No:	RFI-0425-TX-MPI003	Material Dimension:	24" OD x 0.625" WT

MPI DATA

Equipment Used:	Magnaflux Y-2 AC Yoke	Contrast Paint:	WCP-2 White Contrast Paint
Serial Number:	Y2-2025-0197	Batch No:	CP-24125
Calibration:	AC Yoke lift test with 10 lb ASTM block - Passed	Magnetic (Powder/ink):	AC Yoke lift test with 10 lb ASTM block - Passed
Current:	AC (Alternating Current)	Batch No:	INK-BLK-0452
Illumination:	UV-A Light - 1200 µW/cm² at 15 inches	Inspection methods:	Wet
Sensitivity:			

RESULT

Identification	Joint Number	Welder	Dimension:	Result
Pipe Spool A21	WJ-021	AB1234	24" OD x 0.625" WT	Comply
Pipe Spool A21	WJ-022	AB1234	24" OD x 0.625" WT	Comply
Elbow to Spool B9	WJ-045	CD5678	16" OD x 0.500" WT	Does Not Comply
Header Section H3	WJ-063	EF7890	30" OD x 0.750" WT	Comply
Support Bracket C4	WJ-072	GH3456	12" OD x 0.375" WT	Comply

REMARKS/ TEST RESTRICTIONS:

MPI WAS CARRIED OUT 100 % ON BEVEL SURFACE AREANO RELEVANT INDICATION WAS FOUND DURING TIME OF INSPECTION

Magnetic Particle Inspection Korean Edition

Grace Baumgarten



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Bridge Engineering Handbook, Five Volume Set Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the *Bridge Engineering Handbook* This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling *Bridge Engineering Handbook* covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters Translations on South and East Asia, **Korean Business Directory**, 1993 **Congressional Record** United States. Congress, 1951 *Proceedings Of The International Heat Transfer Conference* Lee, 1998-11-01 This year's set of papers includes 23 Keynote Papers and 537 refereed General Papers in seven volumes Experts from around the world have combined to address the leading edge of research and practical innovations in convection combustion heat exchangers two phase flow and much more Whether one is involved in mechanical chemical nuclear or energy engineering the quantity international scope and high quality of the contents make access to these volumes essential **Advances in Manufacturing and Processing of Materials and Structures** Yoseph Bar-Cohen, 2018-09-03 *Advances in Manufacturing and Processing of Materials and Structures* cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures A key development incorporated within this book is 3D printing which is being used to produce complex parts including composites with odd shape fibers as well as tissue and body organs This book has been tailored for engineers scientists and practitioners in different fields such as aerospace mechanical engineering materials

science and biomedicine Biomimetic principles have also been integrated Features Provides the latest state of the art on different manufacturing processes including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world class researchers in their respective fields Provides in depth presentation of the latest 3D and 4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study

Circular United States. Office of Education,1964 **Advances in Production Management Systems. Smart Manufacturing for Industry 4.0** Ilkyeong Moon,Gyu M. Lee,Jinwoo Park,Dimitris Kiritsis,Gregor von Cieminski,2018-08-24 The two volume set IFIP AICT 535 and 536 constitutes the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2018 held in Seoul South Korea in August 2018 The 129 revised full papers presented were carefully reviewed and selected from 149 submissions They are organized in the following topical sections lean and green manufacturing operations management in engineer to order manufacturing product service systems customer driven innovation and value co creation collaborative networks smart production for mass customization global supply chain management knowledge based production planning and control knowledge based engineering intelligent diagnostics and maintenance solutions for smart manufacturing service engineering based on smart manufacturing capabilities smart city interoperability and cross platform implementation manufacturing performance management in smart factories industry 4 0 digitaltwin industry 4 0 smart factory and industry 4 0 collaborative cyber physical production and human systems

Insight ,1997 *StarBriefs* 2001 ,2012-12-06 This compilation probably looks like one of the craziest things a human being could spend his or her time on Yet nobody would wonder at someone taking a short walk every day after twenty five years that person would have covered a surprisingly long distance This is exactly the story behind this list which appeared first as a few pages within the directory StarGuides or whatever name it had at that time and as a distinct sister publication since 1990 The idea behind this dictionary is to offer astronomers and related space scientists practical assistance in decoding the numerous abbreviations acronyms contractions and symbols which they might encounter in all aspects of the vast range of their professional activities including traveling Perhaps it is a bit paradoxical but if scientists quickly grasp the meaning of an acronym solely in their own specific discipline they will probably encounter more difficulties when dealing with adjacent fields It is for this purpose that this dictionary might be most often used Scientists might also refer to this compilation in order to avoid identifying a project by an acronym which already has too many meanings or confused definitions

Cannot Be Silenced Grace Baumgarten,2016-07-29 Did you know Theres a battle raging for over 6 000 years and continuing until the end of time Beginning in the Garden of Eden between God and Lucifer truth and falsehood good and evil light and darkness A battle for the souls of Man God created man to multiply subdue and have dominion over the earth But Lucifer or Satan the ruler of the world system was envious of Gods love for man He deceived Adam and Eve to sin against God Ever since then Satan has ensnared various men across time

advancing his agenda to create world wide financial dominion thus controlling the political spiritual and economic systems everywhere with himself taking full lordship over Gods creation This is why I Grace Baumgarten Cannot Be Silenced With this being an election year in the USA and its consequent Changing of the guard being informed about the secret societies or Enlightened Elites is imperative Their ideology True freedom is liberation from God and from moral constraints with no absolute faith To them All truth is relative to the individual or group With back room dealings ruinous bailouts and elimination of basic human values theyve turned the USA over to be dissected corporate style and theyre forcing this fraud on you and me Yet our founding fathers constructed a different concept one of freedom under the authority of Almighty God as the Great Ruler with His creation nations and peoples empowered from on High His Bible and His Commandments are the authoritative Word of God and the basis for law life and true liberty My first book was just the beginning and so much has happened Therefore following a one year sabbatical I started writing one sentence at a time knowing one day this book would be born I Cannot Be Silenced *Corrosion Prevention and Control* ,1996 *Issues in Astronomy and Astrophysics: 2011 Edition* ,2012-01-09 Issues in Astronomy and Astrophysics 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Astronomy and Astrophysics The editors have built Issues in Astronomy and Astrophysics 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Astronomy and Astrophysics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Astronomy and Astrophysics 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **The Journal of the Korean Physical Society** ,2007 **INIS Atomindeks** ,1987

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web the illustration you see above is a simplified diagram of what prius has for the transfer of power instead it very closely resembles another component found in all vehicles a differential the only difference is that there are multiple sources of power rather than just one hence the name power split device

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web the power split device for hybrid systems oct 09 2023 this book presents a comprehensive overview of power split device psd design it discusses vehicle energy consumption characteristics hybrid vehicle power request solutions typical configurations operating principle and simulation

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web power split device sun carrier 10 kw electric motor generator ring carrier 50 kw electric motor generator planet carrier 1 5 liter gasoline engine 57 kw prius doesnt actually have a transmission because there are no gears and the power carriers are permanently engaged the illustration you see above is a simplified diagram of what

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web sep 13 2021 english the model allows you vary the speed of both the ice and mg2 mg2 is the larger of the 2 electric motor generators and is also referred to as the traction motor because its speed rpm or revolutions per minute has a fixed relationship to the speed of the wheels addeddate 2021 09 13 22 22 27 emulator ruffle swf

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web the diagram below is a schematic of the prius powertrain with detail in particular i have grossly simplified the way in which the internal combustion engine ice drives the planet gears in the power split device psd and the way that the ring gear is connected to the silent chain sprocket and motor generator 2 mg2 it is

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web the power split device can operate the vehicle with electric motor power and the ic engine separately or can also combine the power from both sources it also acts as a continuously variable transmission cvt and eliminates the need for any manual or automatic transmission

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web power split device which is a single pg in this paper in this section the basic mechanisms of a single pg and possible configurations are described for further developments in clutch placements fig 1 shows a pg and its equivalent lever diagram 15 the three nodes on the lever diagram represent the ring gear carrier

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web jul 18 2016 model four touring perhaps this belongs in the newbie forum but i m trying to understand the functioning of the psd i understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnet device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a couple hours putting it together in maya

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web jun wang this paper presents a near optimal on line energy control strategy based on power split ratio for hybrid electric vehicles firstly a typical series parallel hybrid electric

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web nov 6 2016 introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque

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web the power split device the prius transmission includes a special gear set that toyota call the power split device psd this is an epicyclic or planetary gear similar to those used in automatic transmissions however its use in the prius is very different as i hope to explain

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web apr 10 2008 this diagram makes a very nice demonstration about how the mg1 goes from thru 0 at about 65 mph per this diagram to it is a very gradual motion if one is watching the speed of the car and that transition thru 0 should not be stressing the gear components imo in normal operation

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