

## Wilson, Tabatha

---

**From:** Gilliam, Allen  
**Sent:** Monday, April 14, 2014 3:41 PM  
**To:** Aaron.Exley@nidec-motor.com  
**Cc:** mark.becker@nidec-motor.com; Fuller, Kim; Wilson, Tabatha; Mena Mike Spencer (menawwtp@gmail.com); mena charles pitman; fayetteville denise georgiou  
**Subject:** AR0036692\_Nidec ARP000026 April 2014 semi annual Pretreatment report with ADEQ reply\_20140414  
**Attachments:** DMR Report April 2014.pdf

Aaron,

Nidec's semi-annual Pretreatment report was received, reviewed, deemed complete and compliant with the Federal Pretreatment reporting requirements in 40 CFR 403.12(e) and more specifically compliant with the Metal Finishing standards in 40 CFR 433.17.

No further action is deemed necessary at this time.

Thank you for the explanation of Nidec's sampling regarding elevated zinc and what wastewater was actually discharged vs. what was analyzed just for quality control, but not discharged to the City.

Thank you for your timely report remaining in compliance with the Federal Pretreatment Regulations in 40 CFR 403.

Sincerely,

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
501.682.0625

cc: Mike Spencer, Mena Wastewater Superintendent  
Charles Pitman, Mena General Manager  
Denise Georgiou, CH2M Hill consultant engineer to Mena

E/NPDES/NPDES/Pretreatment/Reports

---

**From:** Exley, Aaron [NMCA-MEN] [<mailto:aaron.exley@nidec-motor.com>]  
**Sent:** Monday, April 14, 2014 11:39 AM  
**To:** Gilliam, Allen; Edwards, Charles [NMCA-MAL]  
**Cc:** Wiseman, Randy [NMCA-STL]; Mena Mike Spencer ([menawwtp@gmail.com](mailto:menawwtp@gmail.com)) ([menawwtp@gmail.com](mailto:menawwtp@gmail.com))  
**Subject:** Electronic Copy DMR for April 2014

We also have a hard copy of the report being sent to you by Certified Mail. This report is for the period Oct13 – Mar14.



Aaron Exley  
Environmental, Health & Safety  
Manager

April 11, 2014

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

Charles Pitman  
General Manager  
Mena Wastewater Utilities  
701 Mena Street  
Mena, AR 71953

Dear Mr. Gilliam and Mr. Pitman,

In accordance with 40 CFR Part 403.12(e) and 40 CFR 433.17, Nidec Motor Corporation, Mena Plant is submitting its Semi-Annual Discharge Report to you for review.

We have remained compliant for the period 10/1/2013 – 3/31/2014.

I would like to point out that we did testing on a batch of waste water Oct. 10<sup>th</sup> and Nov. 11<sup>th</sup>. This batch was **held and not released to the POTW**. After two attempts to remove the Zinc this water was removed from our precipitation process. An alternate approved method for eliminating the water was used. We ran a test on the Raw Titan wash water to understand what the Zinc level is when we start the precipitation process, this test is also included in this report.

Tests were performed on 4 batches of waste water with acceptable results. We had Harchem replace the polymer.

All the testing results are attached to this report.

Sincerely,

Aaron Exley

## NIDEC MOTOR CORPORATION

INDUSTRIAL MOTORS & SYSTEMS – MENA PLANT: 500 North Morrow Street, Mena, AR 71953  
PHONE: (479) 394-8741 FAX: (479) 394-8888 EMAIL: aaron.exley@nidec-motor.com



Aaron Exley  
Environmental, Health & Safety  
Manager

CC: Mike Spencer – Mena POTW  
Randy Wiseman - Nidec

## **NIDEC MOTOR CORPORATION**

INDUSTRIAL MOTORS & SYSTEMS – MENA PLANT: 500 North Morrow Street, Mena, AR 71953  
PHONE: (479) 394-8741 FAX: (479) 394-8888 EMAIL: [aaron.exley@nidec-motor.com](mailto:aaron.exley@nidec-motor.com)

# SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40 CFR 433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

## (1) IDENTIFYING INFORMATION

**A. LEGAL NAME & MAILING ADDRESS**  
 Nidec Motor Corporation  
 500 N. Morrow St.  
 Mena, Ar 71953

**B. FACILITY & LOCATION ADDRESS**  
 Nidec Motor Corporation  
 500 N. Morrow St.  
 Mena, Ar 71953

**C. FACILITY CONTACT:** Aaron Exley      **TELEPHONE NUMBER:** 479-394-8741      **e-mail:** aaron.exley@nidec-motor.com

## (2) REPORTING PERIOD--FISCAL YEAR From \_\_\_\_\_ to \_\_\_\_\_ (Both Semi-Annual Reports must cover Fiscal Year)

**A. MONTHS WHICH REPORTS ARE DUE**

\_\_\_\_\_ Apr \_\_\_\_\_ & \_\_\_\_\_ Oct \_\_\_\_\_

**B. PERIOD COVERED BY THIS REPORT**

**FROM:** Oct 2013      **TO:** Mar 2014

## (3) DESCRIPTION OF OPERATION

**A. REGULATED PROCESSES**

**CORE PROCESS(ES)**

CHECK EACH APPLICABLE BLOCK

- Electroplating
- Electroless Plating
- Anodizing
- Coating
- Chemical Etching and Milling
- Printed Circuit Board Manufacture

**ANCILLARY PROCESS(ES)\***

LIST BELOW EACH PROCESS USED IN THE FACILITY

Parts washing \_\_\_\_\_  
 Stator Submersion Test \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*SEE 40CFR433.10(a) FOR THE 40 ANCILLARY OPERATIONS

**B. CHANGES:** SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

**Replaced Polymer**

**C. Number of Regular Employees at this Facility**  
 \_\_\_\_\_ 390 \_\_\_\_\_

**D. [Reserved]**

**(4) FLOW MEASUREMENT**

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY

Process	Average	Maximum	Type of Discharge
Regulated (Core & Ancillary)	75.74	1,260	Batch
Regulated (Cyanide)	-	-	-
'403.6(e) Unregulated*	-	-	-
'403.6(e) Dilute	-	-	-
Cooling Water	17	23	Continuous
Sanitary	13,551.5	13,674	Continuous
Total Flow to POTW	13,599	13,942	XXXXXXXX

\*"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

**(5) MEASUREMENT OF POLLUTANTS**

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- Chromium Reduction
- Cyanide Destruction
- Other \_\_\_\_\_
- None

B. COMMENTS ON TREATMENT SYSTEM

No changes

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES--CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

Pollutant(mg/l) limits	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	2.77	3.38	0.69	3.98	0.43	2.61	1.20	2.13
Monthly Avg	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	--
Max Measured	<.004	<.007	0.011	<0.04	<0.01	<.007	0.72	<0.01	Na*
Avg Measured**	<.004	<.007	0.011	<0.04	<0.01	<.007	0.72	<0.01	Na*

Sample Location Discharge from Waste Water Stream\_\_\_\_\_

Sample Type (Grab or Composite)\_\_\_ Grab\_\_\_\_\_

Number of Samples and Frequency Collected \_\_\_1 every 6 mo. Required / 7 samples taken this period

40CFR136 Preservation and Analytical Methods Use:  Yes  No (include complete Chain of Custody)

\*If a TOMP has been submitted and approved by ADEQ place N/A.

\*\*A value here can only be the average of all samples taken during one (1) calendar month.

**(6) CERTIFICATION**

A. [Reserved]

[Reserved]

B. CHECK ONE:  '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED  '433.12(a) TTO CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the toxic organic management plan submitted to Arkansas Department of Environmental Quality.

Mark Kinder  
(Typed/Printed Name)

  
(Corporate Officer or authorized representative signature)

Date of Signature 4-11-14

**CORPORATE ACKNOWLEDGEMENT (Optional)**

STATE OF ARKANSAS )  
COUNTY OF Polk )

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_ of \_\_\_\_\_, a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation.

Given under my hand and seal of office on this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County, Arkansas

My commission expires \_\_\_\_\_.

**(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]**

*'6602 [42 U.S.C. 13101] Findings and Policy para (b) Policy.--The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.*

**The User may list any new or ongoing Pollution Prevention practices:**

- Floor drains sealed
- Annual SPCC and SWPPP training
- Annual Hazcom Training
- Batches can be held until test results are received.

**(8) GENERAL COMMENTS**

(9) SIGNATORY REQUIREMENTS [40CFR403.12(l)]

I certify under penalty of law that I have personally examined and am familiar with the information in this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mark Kinder  
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

  
SIGNATURE

Plant Manager  
OFFICIAL TITLE

4-11-14  
DATE SIGNED



Analytical Waste Water Testing for Oct13 - Mar14										
Date	Total Cyanide	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc		
Max one day	1.2	0.11	2.77	3.38	0.69	3.98	0.43	2.61		
Monthly Avg	0.65	0.07	1.71	2.07	0.43	2.38	0.24	1.48		
Batch 11/21/2013	<0.01	<0.004	<0.007	0.011	<0.04	<0.01	<0.007	0.14		
Batch 12/4/2013	NT	NT	NT	NT	NT	NT	NT	0.26		
Batch 12/16/2013	NT	NT	NT	NT	NT	NT	NT	0.26		
Batch 1/15/2014	NT	NT	NT	NT	NT	NT	NT	0.72		

Waste water tested but not sent to POTW										
Held 10/10/2013			0.066	0.019	<0.04	0.24	<0.007	3.9	Note-Same batch of waste water	
Held 11/7/2013								3.2		

Batch of water sent to evaporator, see Harchem Report

Raw	11/26/2013	NT	NT	NT	NT	NT	NT	NT	Raw
									1.5

The Titan wash water was tested from the tank so we could understand what the Zinc is before it goes to our process. No water going to the POTW was associated with this test.



Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for the sample submitted on November 22, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



---

John Overbey  
Laboratory Director



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on November 22, 2013  
Dip Tank  
P.O. No. PO16010272271

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

**Sample Identification:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
172800-1	Metals #1, Cyanide #2	11-21-13 10:24,10:26	21-Nov-2013 1026 1

**Notes:**

1. Received temperature of samples did not meet regulatory requirements

**Case Narrative:**

There were no qualifiers for this data and all samples met quality control criteria.

**References:**

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).  
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.  
"Standard Methods for the Examination of Water and Wastewaters", 21st edition.  
"American Society for Testing and Materials" (ASTM).  
"Association of Analytical Chemists" (AOAC).

Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**ANALYTICAL RESULTS**

AIC No. 172800-1

Sample Identification: Metals #1, Cyanide #2 11-21-13 10:24,10:26

Analyte	Result	RL	Units	Qualifier
<b>Total Cyanide</b> SM 4500-CN C,E 1999	< 0.01	0.01	mg/l	
Prep: 22-Nov-2013 1107 by 308	Analyzed: 22-Nov-2013 1506 by 308		Batch: W45733	
<b>Cadmium</b> EPA 200.7	< 0.004	0.004	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Chromium</b> EPA 200.7	< 0.007	0.007	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Copper</b> EPA 200.7	0.011	0.006	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Lead</b> EPA 200.7	< 0.04	0.04	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Nickel</b> EPA 200.7	< 0.01	0.01	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Silver</b> EPA 200.7	< 0.007	0.007	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	
<b>Zinc</b> EPA 200.7	0.14	0.002	mg/l	
Prep: 22-Nov-2013 0929 by 271	Analyzed: 22-Nov-2013 1834 by 305		Batch: S35828	

↑  
Acc  
OK  
AS 11/24/2013

Nidec Motor Corporation  
 500 N Morrow Street  
 Mena, AR 71953

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	93.8	85.0-115			W45733	22Nov13 0837 by 308	22Nov13 1434 by 308		
Cadmium	5 mg/l	99.2	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Chromium	0.5 mg/l	96.3	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Copper	0.5 mg/l	98.7	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Lead	5 mg/l	99.2	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Nickel	0.5 mg/l	99.3	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Silver	0.1 mg/l	98.2	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		
Zinc	0.5 mg/l	93.5	85.0-115			S35828	22Nov13 0913 by 271	22Nov13 1651 by 305		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	172823-1	0.1 mg/l	96.1	75.0-125	W45733	22Nov13 1450 by 302	22Nov13 1847 by 93		
	172823-1	0.1 mg/l	88.7	75.0-125	W45733	22Nov13 1450 by 302	22Nov13 1848 by 93		
	Relative Percent Difference:		8.01	20.0	W45733				
Cadmium	172793-1	5 mg/l	99.0	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	5 mg/l	98.7	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		0.370	20.0	S35828				
Chromium	172793-1	0.5 mg/l	95.5	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	0.5 mg/l	94.4	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		1.13	20.0	S35828				
Copper	172793-1	0.5 mg/l	99.7	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	0.5 mg/l	99.5	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		0.190	20.0	S35828				
Lead	172793-1	5 mg/l	100	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	5 mg/l	99.0	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		1.31	20.0	S35828				
Nickel	172793-1	0.5 mg/l	98.6	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	0.5 mg/l	97.7	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		0.867	20.0	S35828				
Silver	172793-1	0.1 mg/l	98.2	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	0.1 mg/l	97.9	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		0.343	20.0	S35828				
Zinc	172793-1	0.5 mg/l	95.0	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1654 by 305		
	172793-1	0.5 mg/l	93.7	75.0-125	S35828	22Nov13 0913 by 271	22Nov13 1658 by 305		
	Relative Percent Difference:		0.872	20.0	S35828				

Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**LABORATORY BLANK RESULTS**

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>PQL</u>	<u>QC Sample</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Qual</u>
Total Cyanide	< 0.005 mg/l	0.005	0.01	W45733-1	22Nov13 0837 by 308	22Nov13 1432 by 308	
Cadmium	< 0.004 mg/l	0.004	0.004	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Chromium	< 0.007 mg/l	0.007	0.007	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Copper	< 0.006 mg/l	0.006	0.006	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Lead	< 0.04 mg/l	0.04	0.04	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Nickel	< 0.01 mg/l	0.01	0.01	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Silver	< 0.007 mg/l	0.007	0.007	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	
Zinc	< 0.002 mg/l	0.002	0.002	S35828-1	22Nov13 0913 by 271	22Nov13 1647 by 305	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: NIREL Motor Corp  
 Project: DIP TANK  
 Reference: DIP TANK  
 Project Manager: ARON EXLEY  
 Sampled By: EDD MYERS  
 AIC No. 1 Sample Identification METALS #1 Date/Time Collected 11-21-13  
 AIC No. 2 Sample Identification SPAVIN #2 Date/Time Collected 11-21-13

NO OF BOTTLES	ANALYSES REQUESTED	PO No.	SAMPLE MATRIX		NO OF BOTTLES	ANALYSES REQUESTED
			WATER	SOIL		
1	Cd, Cr, Pb, Ni, Ag, Zn, Cu	K			1	Cd, Cr, Pb, Ni, Ag, Zn, Cu
1		X			1	

Field pH calibration on 6 Buffer: \_\_\_\_\_  
 T = Sodium Thiosulfate  
 Z = Zinc acetate

Relinquished Ed Myers Date/Time 11-21-13  
 By: Ed Myers Date/Time 12:56  
 Relinquished Ed Myers Date/Time 11-21-13  
 By: Ed Myers Date/Time 12:56

Received Ed Myers Date/Time 11-21-13  
 By: Ed Myers Date/Time 3:00 PM  
 Received in Lab Ed Myers Date/Time 11-22-13  
 By: Ed Myers Date/Time 9:00 AM

Comments: EPA 200.7 Method, Metals Cd, Cr, Pb, Ni, Ag, Zn + Cu  
5429 5898 6401

EMERSON TANK



Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for the sample submitted on December 5, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



---

John Overbey  
Laboratory Director

This document has been distributed to the following:

PDF cc: Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
aaron.exley@nidec-motor.com





Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on December 5, 2013  
Raw Titan  
P.O. No. 16010273703

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

**Sample Identification:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
173196-1	Titan #1 12-4-13 9:30am	04-Dec-2013 0930	

**Case Narrative:**

There were no qualifiers for this data and all samples met quality control criteria.

**References:**

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

ANALYTICAL RESULTS

AIC No. 173196-1

Sample Identification: Titan #1 12-4-13 9:30am

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Zinc EPA 200.8	0.26	0.002	mg/l	
	Prep: 05-Dec-2013 1102 by 305	Analyzed: 05-Dec-2013 1219 by 305	Batch: S35904	



Nidec Motor Corporation  
 500 N Morrow Street  
 Mena, AR 71953

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	0.05 mg/l	101	85.0-115			S35904	05Dec13 0824 by 305	05Dec13 1041 by 305		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	173112-1	0.05 mg/l	99.4	75.0-125	S35904	05Dec13 0824 by 305	05Dec13 1046 by 305		
	173112-1	0.05 mg/l	101	75.0-125	S35904	05Dec13 0824 by 305	05Dec13 1052 by 305		
		Relative Percent Difference:		1.34	20.0	S35904			

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Zinc	< 0.002 mg/l	0.002	0.002	S35904-1	05Dec13 0824 by 305	05Dec13 1036 by 305	





Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for the sample submitted on December 17, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

A handwritten signature in black ink that reads 'Steve Bradford'. The signature is written in a cursive style and is positioned above a horizontal line.

Steve Bradford  
Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
aaron.exley@nidec-motor.com



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on December 17, 2013  
NEMA Carrousel  
P.O. No. 16010275481

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

**Sample Identification:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
173583-1	Nema Carrousel	12/16/2013 9:30am	16-Dec-2013 0930

**Case Narrative:**

There were no qualifiers for this data and all samples met quality control criteria.

**References:**

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**ANALYTICAL RESULTS**

AIC No. 173583-1

Sample Identification: Nema Carrousel 12/16/2013 9:30am

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Zinc EPA 200.7	0.26	0.002	mg/l	
	Prep: 17-Dec-2013 1449 by 271	Analyzed: 18-Dec-2013 1137 by 305	Batch: S35970	



Nidec Motor Corporation  
 500 N Morrow Street  
 Mena, AR 71953

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	0.5 mg/l	94.3	85.0-115			S35970	17Dec13 1412 by 311	18Dec13 1126 by 305		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	173567-1	0.5 mg/l	93.0	75.0-125	S35970	17Dec13 1412 by 311	18Dec13 1129 by 305		
	173567-1	0.5 mg/l	93.3	75.0-125	S35970	17Dec13 1412 by 311	18Dec13 1131 by 305		
Relative Percent Difference:			0.289	20.0	S35970				

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Zinc	< 0.002 mg/l	0.002	0.002	S35970-1	17Dec13 1412 by 311	18Dec13 1123 by 305	







Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for the sample submitted on January 16, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey  
Laboratory Director

This document has been distributed to the following:

PDF cc: Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
aaron.exley@nidec-motor.com



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on January 16, 2014  
Nema Carrousel  
P.O. No. 16010278529

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

**Sample Identification:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
174478-1	Titan #1 1/15/2014 8:55am	15-Jan-2014 0855	

**Case Narrative:**

There were no qualifiers for this data and all samples met quality control criteria.

**References:**

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**ANALYTICAL RESULTS**

AIC No. 174478-1

Sample Identification: Titan #1 1/15/2014 8:55am

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Zinc	0.72	0.002	mg/l	
EPA 200.7	Prep: 16-Jan-2014 1120 by 271	Analyzed: 16-Jan-2014 1550 by 305	Batch: S36109	



Nidec Motor Corporation  
 500 N Morrow Street  
 Mena, AR 71953

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	0.5 mg/l	102	85.0-115			S36109	16Jan14 1120 by 271	16Jan14 1542 by 305		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	174478-1	0.5 mg/l	96.0	75.0-125	S36109	16Jan14 1120 by 271	16Jan14 1545 by 305		
	174478-1	0.5 mg/l	107	75.0-125	S36109	16Jan14 1120 by 271	16Jan14 1547 by 305		
	Relative Percent Difference:			4.49	20.0	S36109			

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Zinc	< 0.002 mg/l	0.002	0.002	S36109-1	16Jan14 1120 by 271	16Jan14 1539 by 305	

AMERICAN INTERPLEX CORPORATION LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: NIDEC MOTOR CORP  
 Project Reference: Nema Carousel  
 Project Manager: Aaron Exley  
 Sampled By: Edd Myers  
 AIC no.: Titan # 1  
 Date / Time Collected: 8:55 AM  
 Date: 1/15/2014

PO No. [ ]  
 ANALYSIS REQUESTED: [ ]  
 NO OF TESTS: 1

SAMPLE MATERIX	W	A	R	C	G	NO	OF	CD	CR	CV	Pd	Zn	Ag	Cu	Ni	ANALYSIS REQUESTED		
																NO	OF	
1					X		1											

Field pH calibration: 8.4  
 Buffer: @

Relinquished By: Edd Myers Date/Time: 1/15/2014  
 Relinquished Date/Time: 1/15/2014  
 Received By: [Signature] Date/Time: 1/15/2014  
 Received Date/Time: 1/15/2014

Turnaround Time Requested: (please circle) **EXPEDITED IN 1 DAY**  
 Expedited results requested by: AARON EXLEY  
 Who should AIC contact with questions: AARON EXLEY  
 Phone: 479-394-8741 Fax: 479-394-8888  
 Report Attention to: AARON EXLEY  
 Report Address to: 500 N. MORROW ST.

EPA 200.7 METHOD METALS Zn ONLY

STX 9 569 8 6802

Received Feb 5, 2014  
 1-16-14  
 8:15 AM

**Testing of Raw Titan  
Water / no water was  
processed connected  
with this test.**



Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for the sample submitted on November 27, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



---

John Overbey  
Laboratory Director

This document has been distributed to the following:

PDF cc: Nidec Motor Corporation  
ATTN: Mr. Aaron Exley  
aaron.exley@nidec-motor.com





Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on November 27, 2013  
P.O. No. 16010273042

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

**Sample Identification:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
172980-1	Raw Titan 11-26-13 9:30am	26-Nov-2013 0930	

**Qualifiers:**

D Result is from a secondary dilution factor

**References:**

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).  
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.  
"Standard Methods for the Examination of Water and Wastewaters", 21st edition.  
"American Society for Testing and Materials" (ASTM).  
"Association of Analytical Chemists" (AOAC).

Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**ANALYTICAL RESULTS**

AIC No. 172980-1

Sample Identification: Raw Titan 11-26-13 9:30am

Analyte	Result	RL	Units	Qualifier
Zinc	1.5	0.02	mg/l	D
EPA 200.8	Prep: 27-Nov-2013 1107 by 305	Analyzed: 27-Nov-2013 1509 by 305	Batch: S35861	Dil: 10

RAW WATER - TESTED FROM WASHER



Nidec Motor Corporation  
 500 N Morrow Street  
 Mena, AR 71953

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	0.05 mg/l	101	85.0-115			S35861	27Nov13 0828 by 305	27Nov13 1526 by 305		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Zinc	172968-1	0.05 mg/l	104	75.0-125	S35861	27Nov13 0828 by 305	27Nov13 1335 by 305		
	172968-1	0.05 mg/l	105	75.0-125	S35861	27Nov13 0828 by 305	27Nov13 1341 by 305		
		Relative Percent Difference:		1.16	20.0	S35861			

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Zinc	< 0.002 mg/l	0.002	0.002	S35861-1	27Nov13 0828 by 305	27Nov13 1325 by 305	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE OF

Client: <b>NIDEL Motor Corp</b>		NO OF BOTTLES		ANALYSES REQUESTED		AIC CONTROL NO: <b>175480</b>
Project Reference:		PO No.				AIC PROPOSAL NO.:
Project Manager: <b>ARON EXLEY</b>		SAMPLE MATRIX				Carrier/Tracking No. <b>Fed-X</b>
Sampled By: <b>EDD MYERS</b>		WATER				Received Temperature C <b>23</b>
AIC No. <b>1</b>		COMPS				Remarks
Sample Identification: <b>RAW TITAN</b>		GRADES				Date: <b>11-26-13</b>
Date/Time Collected: <b>9:30 AM</b>		X				
Container Type		P				
Preservative		N				Field pH calibration on <input checked="" type="checkbox"/>
G = Glass NO = none		V = VOA vials N = Nitric acid pH2				Buffer:
S = Sulfuric acid pH2						T = Sodium Thiosulfate Z = Zinc acetate
Turnaround Time Requested: (Please circle) NORMAL or <b>EXPEDITED IN 1</b> DAYS		Relinquished By: <b>Ed Myers</b>		Date/Time: <b>11-26-13 10:18</b>		Date/Time Received: <b>11-26-13</b>
Expedited results requested by: <b>ARON EXLEY</b>		Relinquished By: <b>Becky Smith</b>		Date/Time: <b>11-26-13 15:00</b>		Date/Time Received: <b>11-26-13</b>
Who should AIC contact with questions: <b>ARON EXLEY</b>		Comments: <b>EPA 800.7 Method METAL0 ZN only</b>				
Phone: <b>479-394-8741</b> Fax: <b>479-394-8888</b>						
Report Attention to: <b>ARON EXLEY</b>						
Report Address to: <b>500 N. MORROW ST.</b>						

19-Oct-99

FORM 0060

5429 5898 6412

11-2-13  
0930

Samples Tested but Not Discharged to POTW

&

Harchem Report

Plant Of: US Motors- NIDEC WWT Date: 11/4/13  
 Location: Mena, AR Attn: Aaron Exley, Edd Meyers

<b>Chemicals</b>	HB-017	WT-750	WT-460	HEM-533
Inventory On Hand				
NEED				
<b>Usage Concentration</b>	HB-017	WT-750	WT-460	HEM-533
Nemah				
Titan				
Alkota				
<b>Chemicals Used</b>	HB-017	WT-750	WT-460	HEM-533
Nemah				
Titan				
Alkota				
<b>Area Sampled</b>	<b>Zn</b>	<b>Copper</b>	<b>Lead</b>	
city				
Nemah				
Titan				
Alkota				
<b>Control Ranges</b>	<b>Zn</b>	<b>Copper</b>	<b>Lead</b>	
Nemah				
Titan				
Alkota				

**Summary of Visit:**

I witnessed the re-process of Titan #2 based on testing via Data Testing Labs of Fort Smith AR.  
 Data original pull date 10/8  
 Batch size 900 gal  
 pH 10.1  
 WT-460 65 ml  
 WT-750 30 ml  
 HEM-533 9 ml

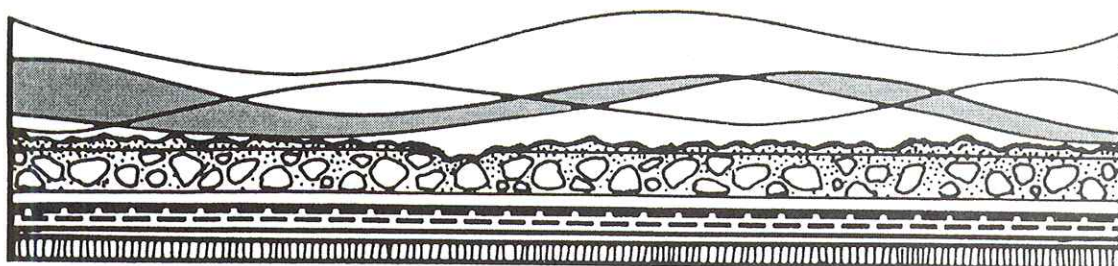
**Changes**

1) Normal pH is set on controller to 9.7 the average batch achieves a pH of 9.8-10.0 in the tank 1 pro  
 We raised the pH to 10.1 (setpt @ 9.9).  
 We are attempting to maintain the pH above 10 through the polymer addition.

1) Solution is very dark. I suspent biological activity, based on smell and appearance. I would still expect the zinc to fall out.

**Signed:** Victoria Smith

**Copy Left With:**



October 23, 2013

FOR: Nidec Motor Corp  
500 N. Morrow Street  
Mena, Arkansas 71953

Type of Analysis: Titan # 2

Date Sample Collected: October 10, 2013  
Time Sample Collected:  
Sample Collected By: Nidec Motor Corp.  
Sample #: 20135868

Date Sample Received: October 15, 2013  
Time Sample Received: 9:50am  
Sample Received By: D Shelby  
Sample Temperature:

<u>Parameter</u>	<u>Method Number</u>	<u>Date &amp; Time Analyzed</u>		<u>By</u>	<u>Reported* Value</u>	<u>MDL mg/Kg</u>	<u>% Recovery</u>	<u>% RDP</u>
Cadmium *	EPA 200.8	10/17/2013	5:01pm	AIP	0.0052	0.004	93.4	0.329
Chromium *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	0.007	95.8	0.613
Copper *	EPA 200.8	10/17/2013	5:01pm	AIP	0.066	0.006	97.7	2.46
Cyanide *	SM4500 CN C, E	10/18/2013	4:39pm	AIP	0.019	0.01	84.6	2.39
Lead *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.04	0.04	89.8	0.805
Nickel *	EPA 200.8	10/17/2013	5:01pm	AIP	0.24	0.01	89.4	0.128
Silver *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	0.007	94.4	3.29
Zinc *	EPA 200.8	10/17/2013	5:01pm	AIP	3.9	0.002	98.5	1.25

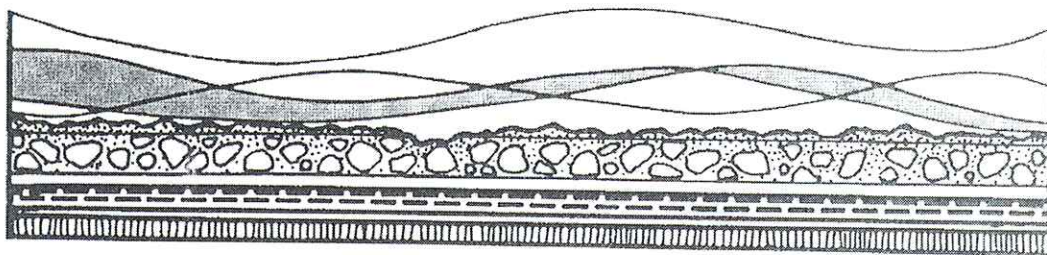
\* Sample Analyzed by American Interplex

Reviewed By: Dolores Shelby

\*All results reported in mg/l unless otherwise indicated.

Method: 19th, 20th & 21st Edition of "Standard Methods for the Examination of Water & Wastewater"  
EPA Regulations, 40 CFR, Part 136

Quality control measures such as blanks, spikes & duplicates are performed daily on at least 10% of all sample. Equipment maintenance & calibration is also performed daily under the guidelines of the USEPA."



October 23, 2013

FOR: Nidec Motor Corp  
500 N. Morrow Street  
Mena, Arkansas 71953

Type of Analysis: Titan # 2

Date Sample Collected: October 10, 2013  
Time Sample Collected:  
Sample Collected By: Nidec Motor Corp.  
Sample #: 20135868

Date Sample Received: October 15, 2013  
Time Sample Received: 9:50am  
Sample Received By: D Shelby  
Sample Temperature:

Parameter	Method Number	Date & Time Analyzed		By	Reported* Value	MDL mg/Kg	% Recovery	% RDP
Cadmium *	EPA 200.8	10/17/2013	5:01pm	AIP	0.0052	0.004	93.4	0.329
Chromium *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	0.007	95.8	0.613
Copper *	EPA 200.8	10/17/2013	5:01pm	AIP	0.066	0.006	97.7	2.46
Cyanide *	SM4500 CN C, E	10/18/2013	4:39pm	AIP	0.019	0.01	84.6	2.39
Lead *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.04	0.04	89.8	0.805
Nickel *	EPA 200.8	10/17/2013	5:01pm	AIP	0.24	0.01	89.4	0.128
Silver *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	0.007	94.4	3.29
Zinc *	EPA 200.8	10/17/2013	5:01pm	AIP	3.9	0.002	98.5	1.25

\* Sample Analyzed by American Interplex

Reviewed By: *D. Shelby*

\*All results reported in mg/l unless otherwise indicated.

Method: 19th, 20th & 21st Edition of "Standard Methods for the Examination of Water & Wastewater"  
EPA Regulations, 40 CFR, Part 136

Quality control measures such as blanks, spikes & duplicates are performed daily on at least 10% of all sample. Equipment maintenance & calibration is also performed daily under the guidelines of the USEPA."



**Exley, Aaron [NMCA-MEN]**

---

**From:** Data Testing <water@mwc-engr.com>  
**Sent:** Wednesday, October 23, 2013 12:24 PM  
**To:** Exley, Aaron [NMCA-MEN]  
**Subject:** 10-10\_Titan2

October 23, 2013

FOR: Nidec Motor Corp  
500 N. Morrow Street  
Mena, Arkansas 71953

Type of Analysis: Titan # 2

Date Sample Collected: October 10, 2013      Date Sample Received: October 15, 2013  
Time Sample Collected:      Time Sample Received: 9:50am  
Sample Collected By: Nidec Motor Corp.      Sample Received By: D Shelby  
Sample #: 20135868      Sample Temperature:

Parameter	Method	Date & Time Number	Reported* Analyzed	MDL Value	% mg/Kg	% Recovery	RDP	
Cadmium *	EPA 200.8	10/17/2013	5:01pm	AIP	0.0052	<u>0.004</u>	93.4	0.329
Chromium *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	<u>0.007</u>	95.8	0.613
Copper *	EPA 200.8	10/17/2013	5:01pm	AIP	0.066	<u>0.006</u>	97.7	2.46
Cyanide *	SM4500	10/18/2013	4:39pm	AIP	0.019	<u>0.01</u>	84.6	2.39
Lead *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.04	<u>0.04</u>	<del>89.8</del>	0.805
Nickel *	EPA 200.8	10/17/2013	5:01pm	AIP	0.24	<u>0.01</u>	89.4	0.128
Silver *	EPA 200.8	10/17/2013	5:01pm	AIP	<0.007	<u>0.007</u>	<del>94.4</del>	3.29
Zinc *	EPA 200.8	10/17/2013	5:01pm	AIP	3.9	<u>0.002</u>	<del>98.5</del>	1.25

\* Sample Analyzed by American Interplex  
Reviewed By:

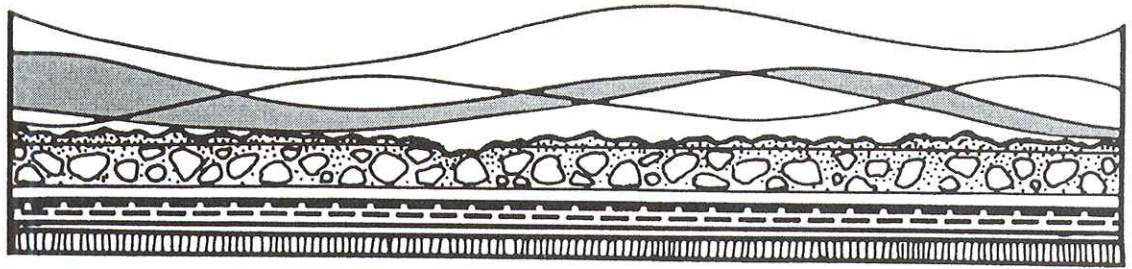
\*All results reported in mg/l unless otherwise indicated.

Method: 19th, 20th & 21st Edition of "Standard Methods for the Examination of Water & Wastewater"  
EPA Regulations, 40 CFR, Part 136

Quality control measures such as blanks, spikes & duplicates are performed daily on at least 10% of







November 15, 2013

FOR: Nidec Motor Corp  
500 N. Morrow Street  
Mena, Arkansas 71953

Type of Analysis: Titan # 2 Retest

Date Sample Collected: November 6, 2013  
Time Sample Collected:  
Sample Collected By: Nidec Motor Corp.  
Sample #: 20136833

Date Sample Received: November 7, 2013  
Time Sample Received: 4:30pm  
Sample Received By: C Peterson  
Sample Temperature:

<u>Parameter</u>	<u>Method Number</u>	<u>Date &amp; Time Analyzed</u>		<u>By</u>	<u>Reported* Value</u>	<u>MDL mg/Kg</u>	<u>% Recovery</u>	<u>% RDP</u>
Zinc *	EPA 200.7	11/13/2013	4:35pm	AIP	3.2	0.002	97.7	0.282

\* Sample Analyzed by American Interplex

Reviewed By: *Dolores Skelby*

\*All results reported in mg/l unless otherwise indicated.

Method: 18th, 19th, 20th Edition of "Standard Methods for the Examination of Water & Wastewater"  
EPA Regulations, 40 CFR, Part 136

Quality control measures such as blanks, spikes & duplicates are performed daily on at least 10% of all sample. Equipment maintenance & calibration is also performed daily under the guidelines of the USEPA."

**Exley, Aaron [NMCA-MEN]**

---

**From:** Data Testing <water@mwc-engr.com>  
**Sent:** Tuesday, November 19, 2013 3:32 PM  
**To:** Exley, Aaron [NMCA-MEN]  
**Subject:** 11-6\_Titan 2 Retest

November 15, 2013

**FOR:** Nidec Motor Corp  
500 N. Morrow Street  
Mena, Arkansas 71953

Type of Analysis: Titan # 2 Retest

Date Sample Collected: November 6, 2013  
Time Sample Collected:  
Sample Collected By: Nidec Motor Corp.  
Sample #: 20136833

Date Sample Received: November 7, 2013  
Time Sample Received: 4:30pm  
Sample Received By: C Peterson  
Sample Temperature:

<u>Parameter</u>	<u>Method Number</u>	<u>Date &amp; Time Analyzed</u>	<u>By</u>	<u>Reported* Value</u>	<u>MDL mg/Kg</u>	<u>% Recovery</u>	<u>% RDP</u>
Zinc *	EPA 200.7	11/13/2013 4:35pm	AIP	3.2	0.002	97.7	0.282

\* Sample Analyzed by American Interplex

Reviewed By: \_\_\_\_\_

\*All results reported in mg/l unless otherwise indicated.

Method: 18th, 19th, 20th Edition of "Standard Methods for the Examination of Water & Wastewater"  
EPA Regulations, 40 CFR, Part 136

Quality control measures such as blanks, spikes & duplicates are performed daily on at least 10% of all sample. Equipment maintenance & calibration is also performed daily under the guidelines of the USEPA."

all sample. Equipment maintenance & calibration is also performed daily under the guidelines of the USEPA."

