

## Loethen, Katie

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**From:** Loethen, Katie  
**Sent:** Monday, June 28, 2021 4:00 PM  
**To:** 'samuel.norman@nidec-motor.com'  
**Cc:** McWilliams, Carrie; Jain, Anmol; Sears, Jessica; 'charles.menawater@sbcglobal.net'  
**Subject:** AR0036692\_Nidec 2018, 2019, 2020, and April 2021 semi annual pretreatment report\_20210628

Sam,

Nidec's 2018, 2019, 2020 and April 2021 reports have been electronically received, reviewed, and deemed complete and compliant with the reporting requirements in 40 CFR 403.12(e) and the Metal Finishing standards in 40 CFR 433.17. No further action is deemed necessary at this time.

Thank you for your timely reports.

Best,

Katie Loethen | Wastewater Engineering Intern  
Division of Environmental Quality | Office of Water Quality  
Permits Branch  
5301 Northshore Drive | North Little Rock, AR 72118  
t: 501.683.3001 | e: [Katie.loethen@adeq.state.ar.us](mailto:Katie.loethen@adeq.state.ar.us)



**ARKANSAS**  
ENERGY & ENVIRONMENT



Sam Norman  
Environmental, Health & Safety Manager

March 24, 2021

Adam Yates  
ADEQ State Pretreatment Coordinators  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

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

Dear Mr. Yates, 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 October 1, 2020 thru March 31, 2021.

All the testing results are attached to this report.

Sincerely,

Sam Norman

CC: Mike Spencer – Mena POTW  
Kelly Martin - 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

# 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: Samuel H. Norman      TELEPHONE NUMBER: 479-394-8741      e-mail: samuel.norman@nidec-motor.com**

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

**A. MONTHS WHICH REPORTS ARE DUE**  
  
 April & October

**B. PERIOD COVERED BY THIS REPORT**  
  
 FROM: October 2020      TO: March 2021

## (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

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**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.

No changes.

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

**C. Number of Regular Employees at this Facility**  
 403

**D. [Reserved]**

**(4) FLOW MEASUREMENT****INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY**

| Process                 | Average | Maximum | Type of Discharge |
|-------------------------|---------|---------|-------------------|
| Regulated (Core & Anc)  | 43.9    | 1,100   | Batch             |
| Regulated (Cyanide)     | -       | -       | -                 |
| ' 403.6(e) Unregulated* | -       | -       | -                 |
| ' 403.6(e) Dilute       | -       | -       | -                 |
| Cooling Water BD        | 20      | 38      | Continuous        |
| Sanitary                | 13,128  | 13,899  | Continuous        |
| Total Flow to POTW      | 13,488  | 14,184  | 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**

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 | .026 | 0.033 | <0.04 | .340 | <.007 | 0.072 | <0.01 | Na*  |
| Avg Measured**         | <.004 | .026 | 0.033 | <0.04 | .340 | <.007 | 0.072 | <0.01 | Na*  |

Sample Location: Discharge from Wastewater Stream

Sample Type (Grab or Composite): Grab

Number of Samples and Frequency Collected: 1 every 6 mo. Required

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.

Jim Stroope  
(Typed/Printed Name)

Jim Stroope  
(Corporate Officer or authorized representative signature)

Date of Signature 07/24/2021

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:

1. Floor drains sealed.
2. Annual SPCC and SWPPP training / Annual RCRA training.
3. Annual Hazardous Communication Training.
4. 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.

Jim Stroope  
NAME OF CORPORATE OFFICER  
OR AUTHORIZED REPRESENTATIVE

Jim Stroope  
SIGNATURE

Plant Manager  
OFFICIAL TITLE

03/24/2021  
DATE SIGNED



Nidec Motor Corporation  
ATTN: Mr. Samuel H. Norman  
500 N Morrow Street  
Mena, AR 71953

This report contains the analytical results and supporting information for samples received on March 19, 2021. 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 Chief Operating Officer or a qualified designee.

A handwritten signature in cursive script that reads 'Steve Bradford'.

Steve Bradford  
Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Nidec Motor Corporation  
ATTN: Mr. Samuel H. Norman  
samuel.norman@nidec-motor.com



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**SAMPLE INFORMATION**

**Project Description:**

One (1) water sample(s) received on March 19, 2021  
DMR OCT 1, 2020- March 31, 2021  
P.O. No. 16010607446

**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> |
|----------------------|-------------------------|--------------------------|--------------|
| 253800-1             | Titan 1A                | 17-Mar-2021 1510         |              |
| 253800-2             | Titan 1B                | 17-Mar-2021 1510         |              |

**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", (SM).
- "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. 253800-1**

**Sample Identification: Titan 1A 17-Mar-2021 1510**

| <b>Analyte</b>               |                               | <b>Result</b>                     | <b>RL</b> | <b>Units</b>  | <b>Qualifier</b> |
|------------------------------|-------------------------------|-----------------------------------|-----------|---------------|------------------|
| <b>Cadmium</b><br>EPA 200.7  | Prep: 22-Mar-2021 0819 by 330 | <b>&lt; 0.004</b>                 | 0.004     | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Chromium</b><br>EPA 200.7 | Prep: 22-Mar-2021 0819 by 330 | <b>0.026</b>                      | 0.01      | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Copper</b><br>EPA 200.7   | Prep: 22-Mar-2021 0819 by 330 | <b>0.033</b>                      | 0.01      | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Lead</b><br>EPA 200.7     | Prep: 22-Mar-2021 0819 by 330 | <b>&lt; 0.04</b>                  | 0.04      | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Nickel</b><br>EPA 200.7   | Prep: 22-Mar-2021 0819 by 330 | <b>0.34</b>                       | 0.01      | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Silver</b><br>EPA 200.7   | Prep: 22-Mar-2021 0819 by 330 | <b>&lt; 0.007</b>                 | 0.007     | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1204 by 328 |           | Batch: S50734 |                  |
| <b>Zinc</b><br>EPA 200.7     | Prep: 22-Mar-2021 0819 by 330 | <b>0.072</b>                      | 0.01      | <b>mg/l</b>   |                  |
|                              |                               | Analyzed: 22-Mar-2021 1223 by 328 |           | Batch: S50734 |                  |

**AIC No. 253800-2**

**Sample Identification: Titan 1B 17-Mar-2021 1510**

| <b>Analyte</b>                              |                               | <b>Result</b>                     | <b>RL</b> | <b>Units</b>  | <b>Qualifier</b> |
|---|-------------------------------|-----------------------------------|-----------|---------------|------------------|
| <b>Total Cyanide</b><br>SM 4500-CN C,E 2011 | Prep: 22-Mar-2021 0920 by 347 | <b>&lt; 0.01</b>                  | 0.01      | <b>mg/l</b>   |                  |
|   |                               | Analyzed: 22-Mar-2021 1632 by 347 |           | Batch: W75239 |                  |



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**LABORATORY CONTROL SAMPLE RESULTS**

| Analyte       | Spike Amount | %    | Limits   | RPD | Limit | Batch  | Preparation Date    | Analysis Date       | Dil | Qual |
|---------------|--------------|------|----------|-----|-------|--------|---------------------|---------------------|-----|------|
| Total Cyanide | 0.1 mg/l     | 106  | 72.1-107 |     |       | W75239 | 22Mar21 0921 by 347 | 22Mar21 1620 by 347 |     |      |
| Cadmium       | 0.2 mg/l     | 94.4 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Chromium      | 0.2 mg/l     | 96.8 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Copper        | 0.2 mg/l     | 87.0 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Lead          | 2 mg/l       | 88.0 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Nickel        | 0.2 mg/l     | 92.3 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Silver        | 0.04 mg/l    | 102  | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1144 by 328 |     |      |
| Zinc          | 0.2 mg/l     | 97.0 | 85.0-115 |     |       | S50734 | 22Mar21 0819 by 330 | 22Mar21 1213 by 328 |     |      |

**MATRIX SPIKE SAMPLE RESULTS**

| Analyte       | Sample                       | Spike Amount | %    | Limits   | Batch  | Preparation Date    | Analysis Date       | Dil | Qual |
|---------------|------------------------------|--------------|------|----------|--------|---------------------|---------------------|-----|------|
| Total Cyanide | 253760-10                    | 0.1 mg/l     | 102  | 59.7-113 | W75239 | 22Mar21 0921 by 347 | 22Mar21 1624 by 347 |     |      |
|               | 253760-10                    | 0.1 mg/l     | 99.2 | 59.7-113 | W75239 | 22Mar21 0921 by 347 | 22Mar21 1626 by 347 |     |      |
|               | Relative Percent Difference: |              | 3.09 | 11.5     | W75239 |                     |                     |     |      |
| Cadmium       | 253851-1                     | 0.2 mg/l     | 83.8 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 0.2 mg/l     | 88.5 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 5.44 | 20.0     | S50734 |                     |                     |     |      |
| Chromium      | 253851-1                     | 0.2 mg/l     | 88.0 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 0.2 mg/l     | 90.7 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 2.96 | 20.0     | S50734 |                     |                     |     |      |
| Copper        | 253851-1                     | 0.2 mg/l     | 76.7 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 0.2 mg/l     | 80.5 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 4.26 | 20.0     | S50734 |                     |                     |     |      |
| Lead          | 253851-1                     | 2 mg/l       | 77.5 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 2 mg/l       | 81.0 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 4.39 | 20.0     | S50734 |                     |                     |     |      |
| Nickel        | 253851-1                     | 0.2 mg/l     | 81.2 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 0.2 mg/l     | 86.6 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 5.51 | 20.0     | S50734 |                     |                     |     |      |
| Silver        | 253851-1                     | 0.04 mg/l    | 83.9 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1147 by 328 |     |      |
|               | 253851-1                     | 0.04 mg/l    | 85.1 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1150 by 328 |     |      |
|               | Relative Percent Difference: |              | 1.42 | 20.0     | S50734 |                     |                     |     |      |
| Zinc          | 253851-1                     | 0.2 mg/l     | 89.3 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1215 by 328 |     |      |
|               | 253851-1                     | 0.2 mg/l     | 88.2 | 75.0-125 | S50734 | 22Mar21 0819 by 330 | 22Mar21 1218 by 328 |     |      |
|               | Relative Percent Difference: |              | 1.07 | 20.0     | S50734 |                     |                     |     |      |



Nidec Motor Corporation  
500 N Morrow Street  
Mena, AR 71953

**LABORATORY BLANK RESULTS**

| <b>Analyte</b> | <b>Result</b> | <b>RL</b> | <b>LOQ</b> | <b>QC Sample</b> | <b>Preparation Date</b> | <b>Analysis Date</b> | <b>Qual</b> |
|----------------|---------------|-----------|------------|------------------|-------------------------|----------------------|-------------|
| Total Cyanide  | < 0.0050 mg/l | 0.0050    | 0.01       | W75239-1         | 22Mar21 0921 by 347     | 22Mar21 1618 by 347  |             |
| Cadmium        | < 0.004 mg/l  | 0.004     | 0.004      | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Chromium       | < 0.009 mg/l  | 0.009     | 0.01       | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Copper         | < 0.008 mg/l  | 0.008     | 0.01       | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Lead           | < 0.03 mg/l   | 0.03      | 0.04       | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Nickel         | < 0.005 mg/l  | 0.005     | 0.01       | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Silver         | < 0.004 mg/l  | 0.004     | 0.007      | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1141 by 328  |             |
| Zinc           | < 0.009 mg/l  | 0.009     | 0.01       | S50734-1         | 22Mar21 0819 by 330     | 22Mar21 1211 by 328  |             |

