

# [ND1] Decew ND1 G7 - Outer Generator Bearing

**Sample No:** WC22106527

**Oil Type:** ESSO TERESSO ISO 46

## SAMPLE INFORMATION

Sample Number	WC22106527	WC22101248	WC22102633	WC22100872
Sample Date	28 Mar 2014	20 Nov 2013	04 Jul 2013	05 Apr 2013
Machine Hours	0	0	0	0
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	SEVERE	ABNORMAL	ATTENTION	SEVERE

**ONTARIO POWER GENERATION**  
 NIAGARA PLANT GROUP., 14000 NIAGARA PKWY  
 NIAGARA ON THE LAKE, ON  
 Canada L0S 1J0  
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## OIL CONDITION

Visc @ 40°C	cSt	46.0	45.3	46.1	46.5
Acid Number (AN)	mg KOH/g	0.090	0.074	0.02	0.02

## CONTAMINATION

Water	%	3.831	0.116	---	2.455
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	0	2	<1
Potassium	ppm	<1	3	0	0

## WEAR METALS

PQ		---	---	11	10
Iron	ppm	4	2	4	3
Copper	ppm	3	2	4	3
Lead	ppm	40	41	36	38
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0

## ADDITIVES

Calcium	ppm	1	<1	<1	<1
Magnesium	ppm	0	1	0	0
Zinc	ppm	5	4	6	4
Phosphorus	ppm	3	3	3	3
Barium	ppm	0	0	<1	<1
Boron	ppm	<1	<1	<1	<1

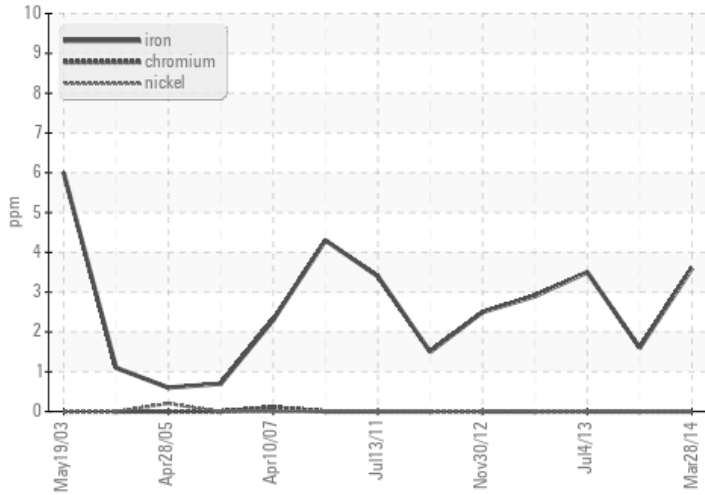
## Diagnosis

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Test values may be askew due high concentration of free water present in sample. All component wear rates are normal. ppm Water and water and water contamination levels are severe. Particles >6µm are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. Particles >38µm are notably high. There is a high concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

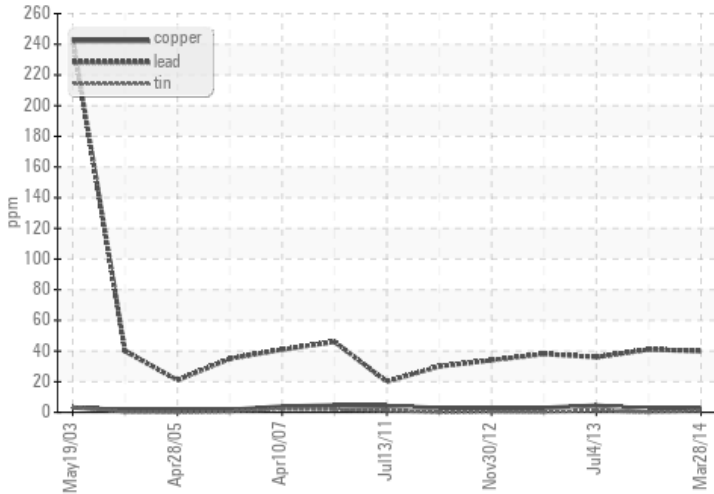
**Depot:** ONTQUE  
**Unique No:** 3907368  
**Signed:** Kevin Marson  
**Report Date:** 11 Apr 2014

# GRAPHS

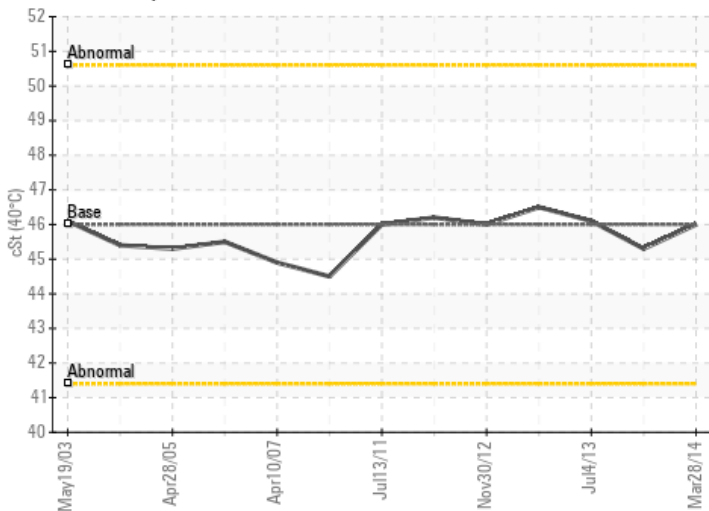
### Ferrous Alloys



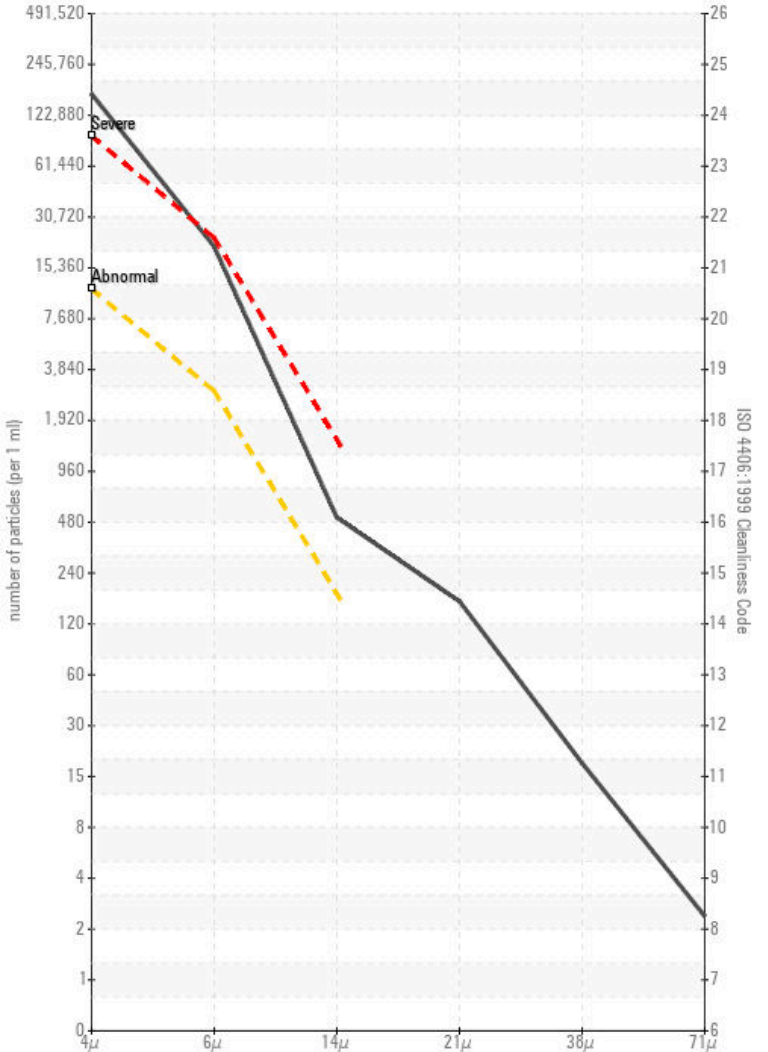
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

