

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



2009 0-7011 M=2013 J=2014 0-7015 D=2018 M=2021 S=2022

SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		WC0828632	PP	WC064288
Sample Date		Client Info		27 Aug 2023	08 Jul 2023	27 Mar 202
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	histor
Iron	ppm	ASTM D5185(m)	>85	0	1	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	0	0	0
Lead	ppm	ASTM D5185(m)	>60	0	0	0
Copper	ppm	ASTM D5185(m)		<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	histor
Boron	0000	ASTM D5185(m)	0	<1	0	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
	ppm		0		0	0
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	_	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	<1	<1
Calcium	ppm	ASTM D5185(m)		<1	<1	0
Phosphorus	ppm	ASTM D5185(m)	2.4	<1	4	11
Zinc	ppm	ASTM D5185(m)	0	2	2	1
Sulfur	ppm	ASTM D5185(m)		610	742	785
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	histor
Silicon	ppm	ASTM D5185(m)	>20	0	2	3
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
FLUID CLEANLI	NESS	method	limit/base	current	history1	histor
Particles >4µm		ASTM D7647	>10000	938	9030	937
Particles >6µm		ASTM D7647	>1300	176	1 332	416
Particles >14µm		ASTM D7647	>160	8	33	41
Particles >21µm		ASTM D7647	>40	3	8	10
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	17/15/10	▲ 20/18/12	17/16/1
FLUID DEGRAD	ATI <u>ON</u>	method	limit/base	current	history1	histor
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.09	0.07	0.06
:26:04) Rev: 1	ing non/y		0.02	0.00		Submitted E

SAB1 G9 Component Thrust Bearing Fluid ESSO TERESSO ISO 46 (4250 LTR)

DIAGNOSIS

Area SAB1

Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Wear

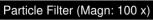
Component wear rates appear to be normal (unconfirmed).

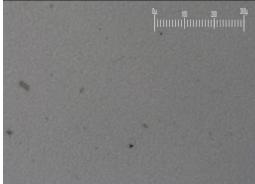
Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





Report Id: ONTQUE [WCAMIS] 02578794 (Generated: 08/30/2023 07:26:04) Rev: 1

Submitted By: ?



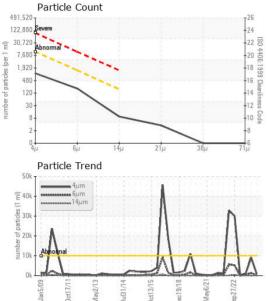
Viscosity @ 40°C

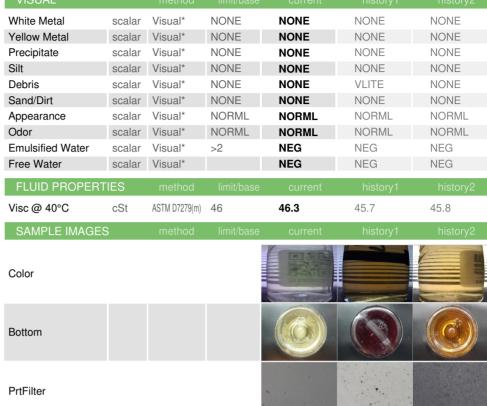
60

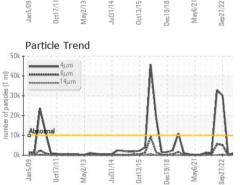
55 () (40°C) ŝ

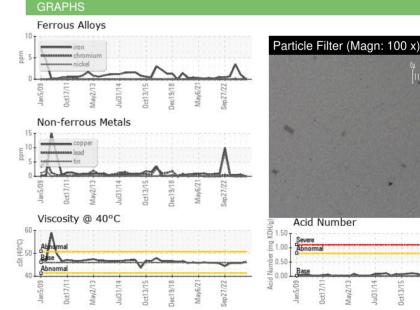
> 45 Abr 40

OIL ANALYSIS REPORT









: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: 28 Aug 2023

: 30 Aug 2023

Received

Diagnosed

Ontario Power Generation NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY NIAGARA ON THE LAKE, ON CA LOS 1J0 mike.brochu@opg.com T: (905)357-0322 F: (905)374-5466

lec19/1



Diagnostician : Kevin Marson Accredited Unique Number : 5631854 Laboratory Test Package : IND 2 (Additional Tests: BottomAnalysis, FilterPatch, PrtFilter, TAN Man) Contact: Michael Brochu To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

: WC0828632

: 02578794

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number

ep27/22 Mav6/2