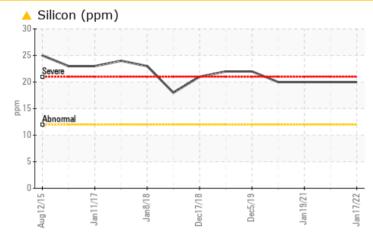
PROBLEM SUMMARY

NCH G TUBR

Component Bearing Fluid ESSO TERESSO ISO 68 (55 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL ABNORMAL ABNORMAL Silicon ppm ASTM D5185(m) >12 ▲ 20 ▲ 20

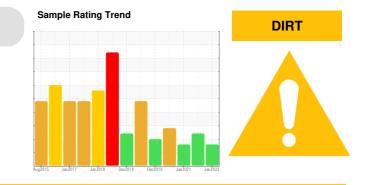
Customer Id: NEWSTJ Sample No.: WC0445190 Lab Number: 02473258 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



14 Jun 2021 Diag: Kevin Marson



Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Silicon ppm levels are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

19 Jan 2021 Diag: Kevin Marson



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





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OIL ANALYSIS REPORT

Sample Rating Trend

דפוח

Machine Id **NCH G TUBR** Component

Bearing Fluid ESSO TERESSO ISO 68 (55 LTR)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

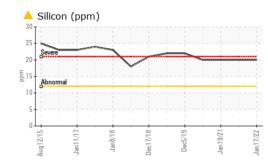
Fluid Condition

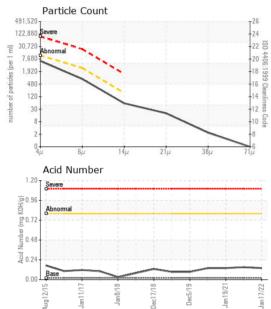
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

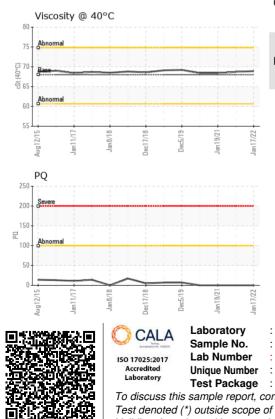
SIS REPC	DRT		_			DIRT
		Aug2015	anton Janco B	Dec2018 Dec2019 Jan2027	Jun2222	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0445190	WC0327864	WC0327933
Sample Date		Client Info		17 Jan 2022	14 Jun 2021	19 Jan 2021
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed	,	Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>63	3	2	2
Chromium	ppm	ASTM D5185(m)	200	0	0	0
Nickel	ppm	ASTM D5185(m)		<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>161	18	15	15
Copper	ppm	ASTM D5185(m)	>13	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>27	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.5	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0.4	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)		2	2	2
Phosphorus	ppm	ASTM D5185(m)	0.7	5	1	1
Zinc	ppm	ASTM D5185(m)	0	4	4	4
Sulfur	ppm	ASTM D5185(m)	1315	1881	1865	1899
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>12	2 0	2 0	2 0
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1



OIL ANALYSIS REPORT







FLUID CLEANLINESS Particles >4µm Particles >6µm Particles >14µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL White Metal scala	•	>10	current 5419 742 51 17 2 0 20/17/13 current	history1 ▲ 27510 ▲ 5296 141 23 1 0 ▲ 22/20/14 history1	history2 3352 598 25 6 0 0 0 19/16/12
Particles >6µm Particles >14µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c) method /g ASTM D974*	>2500 >160 >40 >10 >3 >20/18/14 limit/base	742 51 17 2 0 20/17/13	 ▶ 5296 141 23 1 0 ▶ 22/20/14 	598 25 6 0 0 19/16/12
Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c) method	>160 >40 >10 >3 >20/18/14 limit/base	51 17 2 0 20/17/13	141 23 1 0 ▲ 22/20/14	25 6 0 0 19/16/12
Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) VISUAL	ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c) method /g ASTM D974*	>40 >10 >3 >20/18/14 limit/base	17 2 0 20/17/13	23 1 0 ▲ 22/20/14	6 0 0 19/16/12
Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	ASTM D7647 ASTM D7647 ISO 4406 (c) method g ASTM D974*	>10 >3 >20/18/14 limit/base	2 0 20/17/13	1 0 ▲ 22/20/14	0 0 19/16/12
Particles >71µm Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	ASTM D7647 ISO 4406 (c) method /g ASTM D974*	>3 >20/18/14 limit/base	0 20/17/13	0 2 2/20/14	0 19/16/12
Oil Cleanliness FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	ISO 4406 (c) method /g ASTM D974*	>20/18/14 limit/base	20/17/13	▲ 22/20/14	19/16/12
FLUID DEGRADATION Acid Number (AN) mg KOH VISUAL	method /g ASTM D974*	limit/base			
Acid Number (AN) mg KOH VISUAL	g ASTM D974*		current	history1	
VISUAL	•	0.02			history2
		0.02	0.14	0.15	0.14
White Metal scala	method	limit/base	current	history1	history2
	r Visual*	NONE	NONE	NONE	NONE
Yellow Metal scala	r Visual*	NONE	NONE	NONE	NONE
Precipitate scala	r Visual*	NONE	NONE	NONE	NONE
Silt scala	r Visual*	NONE	NONE	NONE	NONE
Debris scala		NONE	NONE	NONE	NONE
Sand/Dirt scala	r Visual*	NONE	NONE	NONE	NONE
Appearance scala		NORML	NORML	NORML	NORML
Odor scala		NORML	NORML	NORML	NORML
Emulsified Water scala		>2	NEG	NEG	NEG
Free Water scala		~ _	NEG	NEG	NEG
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	68	68.9	68.7	68.4
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					PU321000
Bottom					

 Image: Solution of the state of the sta

NEWFOUNDLAND POWER INC.

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Submitted By: Roger Pennell Page 4 of 4