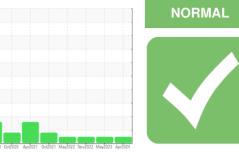


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

HCP G LGBR Component Bearing Fluid

MOBIL DTE OIL HVY MEDIUM (100 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

An increase in the copper level is noted. All other component wear rates are normal.

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.

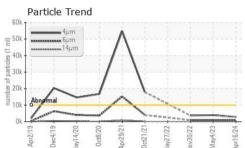
Sample Date Client Info 16 Apr 2024 04 May 2023 30 Nov 20; Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Charged Client Info 0 0 0 0 0 Oil Charged Client Info 0 0 0 0 0 Oil Charged Client Info 0 0 0 0 0 Chromium ppm ASTM 0585(m) >63 <1 <1 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Imit/base current history1 history1 PQ ASTM DB184' 0 0 0 PQ ASTM DB184' 0 0 0 PQ ASTM DB184' 0 0 0 Nickel ppm ASTM DB184' 0 0 0 Nickel ppm ASTM DB184'' 0 0 0 Nickel ppm ASTM DB184'' 0 0 0 Astm DB1858(m) >20 c1 1 1 0 Astm DB1858(m) >20 c1 0	Sample Number		Client Info		WC0706100	WC0455582	WC0455771
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status I Imit/bass current history1 history1 PQ ASTM D518/m 63 c1 c1 client PQ ASTM D518/m 63 c1 c1 client Chromium ppm ASTM D518/m 20 0 0 0 Nickel ppm ASTM D518/m 20 c1 c1 c1 0 Muminum ppm ASTM D518/m 20 c1	Sample Date		Client Info		16 Apr 2024	04 May 2023	30 Nov 2022
Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status method imit/base current history1 history1 PQ ASTM D5184/m 0 0 0 0 Iron ppm ASTM D5185/m >63 <1 <1 <1 Chromium ppm ASTM D5185/m >20 0 0 0 Nickel ppm ASTM D5185/m >20 <1 <1 0 Aluminum ppm ASTM D5185/m >20 <1 <1 <1 0 Aluminum ppm ASTM D5185/m >2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 <1 1 <1 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	hrs	Client Info		0	0	0
Sample Status nethod Imit/bass current NORMAL NORMAL NORMAL VEAR METALS method Imit/bass current history1 history1 PQ ASTM D5186/m >63 <1 <1 <1 Chromium ppm ASTM D5186/m >20 0 0 0 Nickel ppm ASTM D5186/m >20 0 0 0 Nickel ppm ASTM D5186/m >22 <1 <1 0 Aluminum ppm ASTM D5186/m >22 <1 <1 <1 1 Lead ppm ASTM D5185/m >2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Oil Age	hrs	Client Info		0	0	0
Sample Status method imit/base current. NORMAL NORMAL VEAR METALS method imit/base current. history1 history1 PQ ASTM DB164' 0 0 0 0 Iron ppm ASTM DB186(m) >20 c1 <1 <1 Chromium ppm ASTM DB186(m) 20 c1 <1 0 Nickel ppm ASTM DB186(m) 20 c1 <1 <1 Lead ppm ASTM DB186(m) >2 c1 <1 <1 <1 Copper ppm ASTM DB186(m) >2 7 0 0 0 Antimony ppm ASTM DB186(m) >2 0 0 0 Antimony ppm ASTM DB186(m) >0 0 0 0 Antimony ppm ASTM DB186(m) 0 0 0 0 Antimony ppm ASTM DB186(m) 0	Oil Changed		Client Info		N/A	N/A	N/A
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Iron ppm ASTM DS185(m) >63 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) S20 <1 <1 0 Titanium ppm ASTM D5185(m) S20 <1 <1 0 Silver ppm ASTM D5185(m) >2 <1 <1 <1 <1 Lead ppm ASTM D5185(m) >2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 S1 S1 S1 S1 S1 <th>PQ</th> <th></th> <th>ASTM D8184*</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	PQ		ASTM D8184*		0	0	0
Nickel ppm ASTM D5185(m) >20 <1	Iron	ppm	ASTM D5185(m)	>63	<1	<1	<1
Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) >2 <1 <1 <1 Lead ppm ASTM D5185(m) >161 27 17 15 Copper ppm ASTM D5185(m) >161 27 0 0 0 Antimony ppm ASTM D5185(m) >27 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 <td>Chromium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>>20</td> <th>0</th> <td>0</td> <td>0</td>	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
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Aluminum ppm ASTM D5185(m) >2 <1	Silver		ASTM D5185(m)		0	0	0
Lead ppm ASTM D5185(m) >161 27 17 15 Copper ppm ASTM D5185(m) >13 11 2 2 Tin ppm ASTM D5185(m) >27 0 0 0 Antimony ppm ASTM D5185(m) 0 <1 0 Vanadium ppm ASTM D5185(m) 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 Boron ppm ASTM D5185(m) 0 0 0 Maganese ppm ASTM D5185(m) 0 0 0 Maganese ppm ASTM D5185(m) 0 0 0 Maganese ppm ASTM D5185(m) 125 138 127 Zinc ppm ASTM D5185(m) 125 138 127 Zinc ppm ASTM D5185(m) 120 2 <td< th=""><td>Aluminum</td><td></td><td>ASTM D5185(m)</td><td>>2</td><th><1</th><td><1</td><td><1</td></td<>	Aluminum		ASTM D5185(m)	>2	<1	<1	<1
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Antimony ppm ASTM D5185(m) 0 <1			()				
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Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185(m) <1			. ,				
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Magnesium ppm ASTM D5/85(m) <1	-		. /				
Calcium ppm ASTM D5185(m) 0 0 0 0 Phosphorus ppm ASTM D5185(m) 125 138 127 Zinc ppm ASTM D5185(m) 60 64 63 Sulfur ppm ASTM D5185(m) 703 1937 1834 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185(m) >12 0 2 1 Sodium ppm ASTM D5185(m) >12 0 0 <1 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D5185(m) >20 <1 <1 <1 <1 Water % ASTM D5185(m) >20 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 1	0						
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Sulfur ppm ASTM D5185(m) 703 1937 1834 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185(m) >12 0 2 1 Sodium ppm ASTM D5185(m) >12 0 0 <1 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D5185(m) >20 <1 <1 <1 <1 Water % ASTM D5185(m) >20 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 <1 <1			. /				
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Sodium ppm ASTM D5185(m) 0 0 <1							
Potassium ppm ASTM D5185(m) >20 <1			. /	>12			
Water % ASTM D6304* >2 0.027 ppm Water ppm ASTM D6304* 272 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >10000 2824 3917 3646 Particles >6µm ASTM D7647 >2500 897 948 904 Particles >14µm ASTM D7647 >160 58 60 58 Particles >21µm ASTM D7647 >10 1 0 1 Particles >38µm ASTM D7647 >10 1 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13		ppm			0		
ppm Water ppm ASTM D6304* 272 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >10000 2824 3917 3646 Particles >6µm ASTM D7647 >2500 897 948 904 Particles >14µm ASTM D7647 >160 58 60 58 Particles >14µm ASTM D7647 >100 12 13 14 Particles >38µm ASTM D7647 >10 1 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13						<1	<1
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Particles >4μm ASTM D7647 >10000 2824 3917 3646 Particles >6μm ASTM D7647 >2500 897 948 904 Particles >14μm ASTM D7647 >160 58 60 58 Particles >14μm ASTM D7647 >160 58 60 58 Particles >21μm ASTM D7647 >40 12 13 14 Particles >38μm ASTM D7647 >10 1 0 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13 Submitted By: Paul Materia ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13	ppm Water	ppm	ASTM D6304*		272		
Particles >6µm ASTM D7647 >2500 897 948 904 Particles >14µm ASTM D7647 >160 58 60 58 Particles >14µm ASTM D7647 >40 12 13 14 Particles >38µm ASTM D7647 >10 1 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13 Submitted By: Paul Max Submitted By: Paul Max Submitted By: Paul Max Submitted By: Paul Max	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >160 58 60 58 Particles >21µm ASTM D7647 >40 12 13 14 Particles >38µm ASTM D7647 >10 1 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13 Submitted By: Paul Materia ISO 4406 (c) >20/18/14 19/17/13 19/17/13	•						
Particles >21μm ASTM D7647 >40 12 13 14 Particles >38μm ASTM D7647 >10 1 0 1 Particles >371μm ASTM D7647 >3 0 0 0 Oil Cleanliness 22531) Hev: 1 ISO 4406 (c) >20/18/14 19/17/13 19/17/13 Submitted By: Paul Max	Particles >6µm		ASTM D7647	>2500		948	904
Particles >38μm ASTM D7647 >10 1 0 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness (25:31) Hev: 1 ISO 4406 (c) >20/18/14 19/17/13 19/17/13 Submitted By: Paul Max	Particles >14µm				58	60	58
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness :25:31) Hev: 1 ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13	Particles >21µm		ASTM D7647	>40	12	13	14
Oil Cleanliness ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13 :25:31) Hev: 1 ISO 4406 (c) >20/18/14 19/17/13 19/17/13 19/17/13	Particles >38µm		ASTM D7647	>10	1	0	1
:25:31) Rev: 1 Submitted By: Paul Ma	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/14	19/17/13	19/17/13	19/17/13 By: Paul Martin
	.20.31) Hev: 1					Submitted	By: Paul Martin

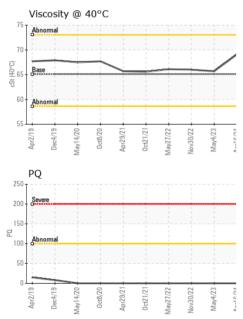


OIL ANALYSIS REPORT

T I								
Abnormal								1
			<u> </u>	-	-	-	_/	-
Apr2/19 Dec4/19	May14/20	0ct8/20	Apr29/2	0ct21/2	May27/22	Nov30/22	May4/23	Apr16/24 -
PQ								
	Apr2/19	Apr2/19	Apr2/19	Apr.2/19	Apr2/19 +	Apri2/19	Apri2/19	Apr2/19 +

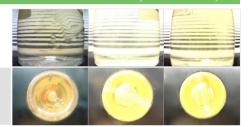




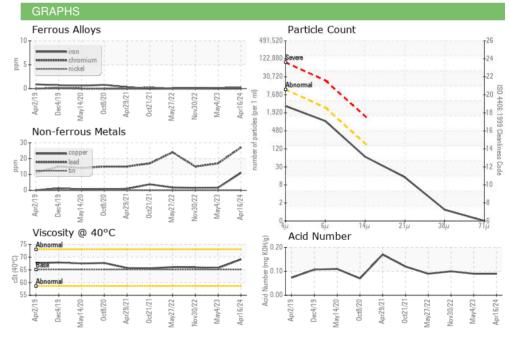


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.09	0.09	0.10
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	WGOIL	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	.5%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.1	69.1	65.7	66.0
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2

Color



Bottom





Laboratory CALA Sample No. ISO 17025:2017 Accredited Laboratory

: WC0706100 Lab Number : 02642898 Unique Number : 5800437

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 19 Jun 2024 Tested : 24 Jun 2024 Diagnosed : 24 Jun 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: KF, PQ, PRTCOUNT, TAN Man)

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.

Report Id: NEWSTJ [WCAMIS] 02642898 (Generated: 06/24/2024 10:25:31) Rev: 1

NEWFOUNDLAND POWER INC.

50 DUFFY PLACE, PO BOX 8910 ST. JOHNS, NL CA A1B 3P6 Contact: Paul Martin pmartin@newfoundlandpower.com T: F: (709)737-2926

> Submitted By: Paul Martin Page 2 of 2