

OIL ANALYSIS REPORT

Sample Rating Trend



Area [189553] Machine Id **PUN G1 GOV** Component

Pump Fluid ESSO TERESSO ISO 68 (15 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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.

		Jan 2001	Jan2001 Feb2004	Oct2004 Mar2005 Jul2008	Dec2021	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0445300	WC756264	WC651309
Sample Date		Client Info		30 Dec 2021	09 Jul 2008	09 Mar 2005
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	19	
Iron	ppm	ASTM D5185(m)	>90	<1	20	13
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	. ,	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>3	0	<1	1
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>7	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>12	<1	7	5
Copper	ppm	ASTM D5185(m)	>30	<1	3	4
Tin	ppm	ASTM D5185(m)	>9	0	<1	0
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.5	<1	1 5	16
Barium	ppm	ASTM D5185(m)	0.4	0	▲ <1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	2	<1
Calcium	ppm	ASTM D5185(m)	0	7	▲ 5	4
Phosphorus	ppm	ASTM D5185(m)	0.7	24	4 28	395
Zinc	ppm	ASTM D5185(m)	0	19	A 7	2
Sulfur	ppm	ASTM D5185(m)	1315	2041	7 794	7199
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>60	0	4	5
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1



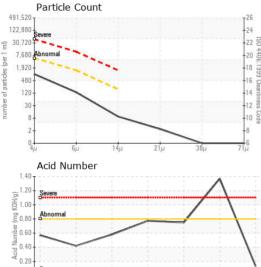
Particle Trend

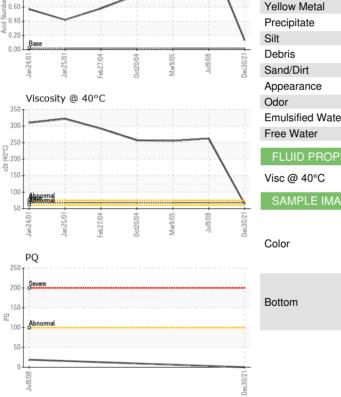
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OIL ANALYSIS REPORT





Particles >4µm ASTM D7647 >5000 862 Particles >6µm ASTM D7647 >1300 115 Particles >14µm ASTM D7647 >160 8 Particles >21µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >30 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/14/10 FLUID DEGRADATION method limit/base current history1 history2 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE NONE NONE Yellow Metal scalar Visual* NONE NONE NONE NONE NONE NONE Yellow Metal scalar Visual* NONE NONE NONE NONE NONE NONE Stit <t< th=""><th>Particles >6µm ASTM D7647 >1300 115 Particles >14µm ASTM D7647 >160 8 Particles >21µm ASTM D7647 >40 2 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/14/10 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D974* 0.02 0.13 1.37 0.750 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE NONE NONE NONE Precipitate scalar Visual* NONE NONE NONE NONE NONE Silt scalar Visual* NONE NONE NONE NONE NONE Silt scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE Appearance scalar Visual* NONE NORML NORML NORML Appearance scalar Visual* NONE NORML NORML NORML Appearance scalar Visual* NONE NORE NONE NONE Free Water scalar Visual* NORML NORML NORML NORML Cdor scalar Visual* NORML NORML NORML NORML MORML NORML NORML NORML NORML NORML Cdor scalar Visual* NORML NORML NORML NORML NORML Cdor Scalar Visual* NORML NORML NORML NO</th><th>FLUID CLEANLIN</th><th>IESS</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	Particles >6µm ASTM D7647 >1300 115 Particles >14µm ASTM D7647 >160 8 Particles >21µm ASTM D7647 >40 2 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/14/10 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D974* 0.02 0.13 1.37 0.750 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE NONE NONE NONE Precipitate scalar Visual* NONE NONE NONE NONE NONE Silt scalar Visual* NONE NONE NONE NONE NONE Silt scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE Appearance scalar Visual* NONE NONE NONE NONE Appearance scalar Visual* NONE NORML NORML NORML Appearance scalar Visual* NONE NORML NORML NORML Appearance scalar Visual* NONE NORE NONE NONE Free Water scalar Visual* NORML NORML NORML NORML Cdor scalar Visual* NORML NORML NORML NORML MORML NORML NORML NORML NORML NORML Cdor scalar Visual* NORML NORML NORML NORML NORML Cdor Scalar Visual* NORML NORML NORML NO	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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NEWFOUNDLAND POWER INC.

50 DUFFY PLACE, PO BOX 8910 ST. JOHNS, NL CA A1B 3P6 Contact: Shane Reid sreid@newfoundlandpower.com T: (709)737-5209 F: (709)737-2926

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