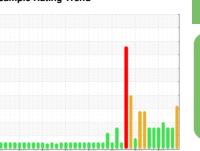


OIL ANALYSIS REPORT

Oil Age

Sample Rating Trend



ADDITIVES



#1 Induced Draft Fan (S/N 3

Component Bearing

ESSO NUTO H ISO 46 (675 LTR)

Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as ESSO NUTO H ISO 46, however, a fluid match indicates that this fluid is ISO 46 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

32400-F -1)	12003 Apr2004	Dec2005 Jan2006	May2009 Oc2010 Aug2017	0042021	
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0861486	WC0803237	WC0745429
Sample Date		Client Info		10 Oct 2023	20 Jul 2023	08 Mar 2023
Machine Age	hrs	Client Info		0	0	0

Client Info

Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATIO	Ν	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	4	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	0	0
Tin	ppm	ASTM D5185(m)	>20	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0

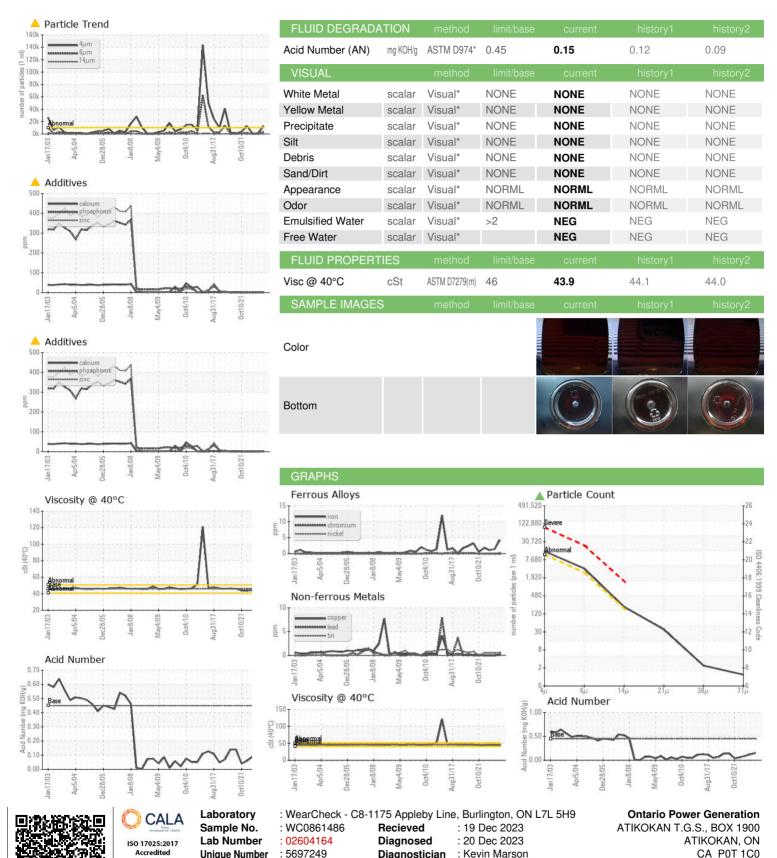
ADDITIVES		method	iimit/base		nistory i	nistory2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5	0	0	0
Calcium	ppm	ASTM D5185(m)	50	▲ <1	▲ <1	a 0
Phosphorus	ppm	ASTM D5185(m)	330	2	1	▲ <1
Zinc	ppm	ASTM D5185(m)	410	2	2	▲ <1
Sulfur	ppm	ASTM D5185(m)	2700	1976	1956	▲ 1972
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
0		4.0TM DE (05/)		_		

Silicon	ppm	ASTM D5185(m)	>15	<1	<1	<1
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
FLUID CLEANL	INESS	method				history2
Particles >4µm		ASTM D7647	>10000	12853	1193	732

Particles >4μm	ASTM D7647	>10000	12853	1193	732
Particles >6µm	ASTM D7647	>2500	3437	131	120
Particles >14μm	ASTM D7647	>160	182	13	8
Particles >21μm	ASTM D7647	>40	32	6	1
Particles >38μm	ASTM D7647	>10	2	0	0
Particles >71μm	ASTM D7647	>3	1	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	2 1/19/15	17/14/11	17/14/10



OIL ANALYSIS REPORT



Test Package : IND 2 (Additional Tests: TAN Man)

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

F: (807)597-1198

Contact: Dale Anthony

dale.anthony@opg.com

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