



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area  
**MTR [166411]**  
Machine Id  
**TINHGEN5BRGGUITHR**  
Component  
**Thrust Bearing**  
Fluid  
**MOBIL DTE 746 (1588 LTR)**

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

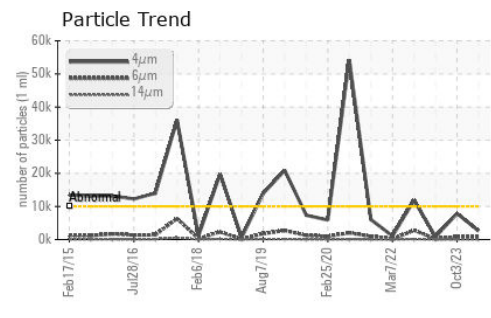
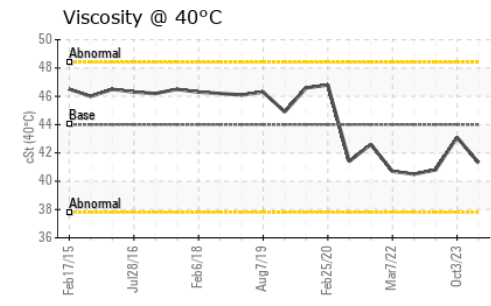
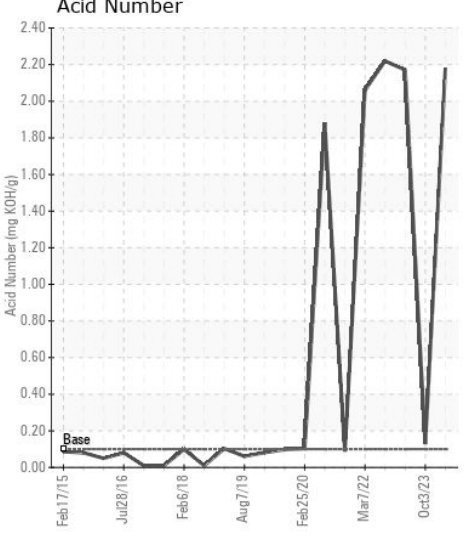
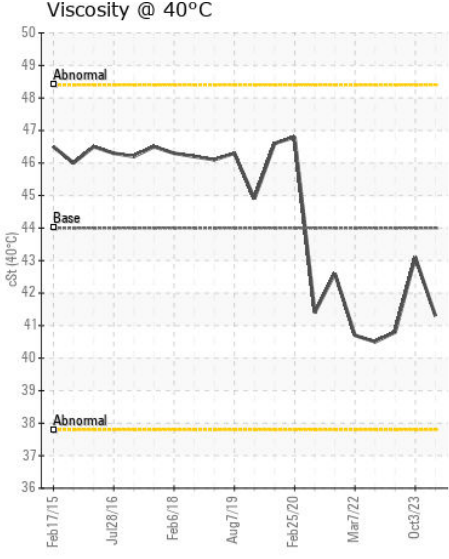
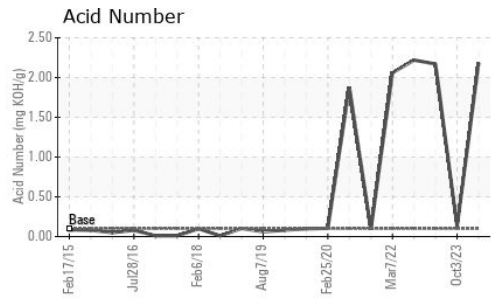
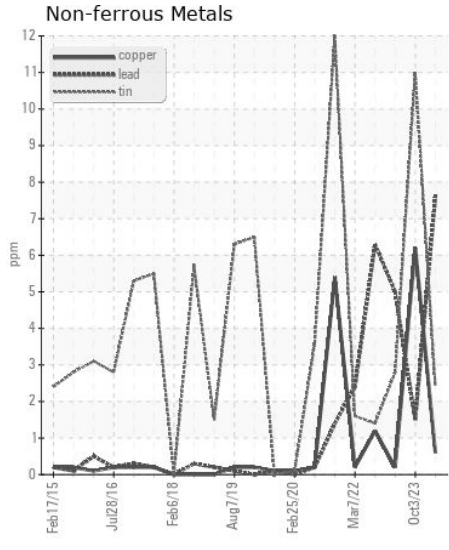
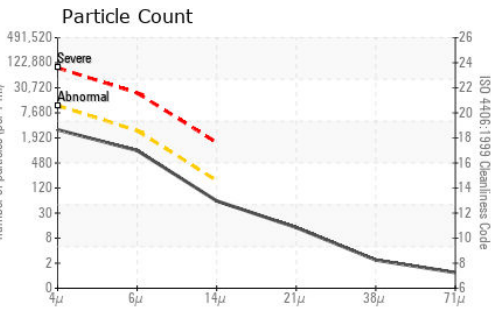
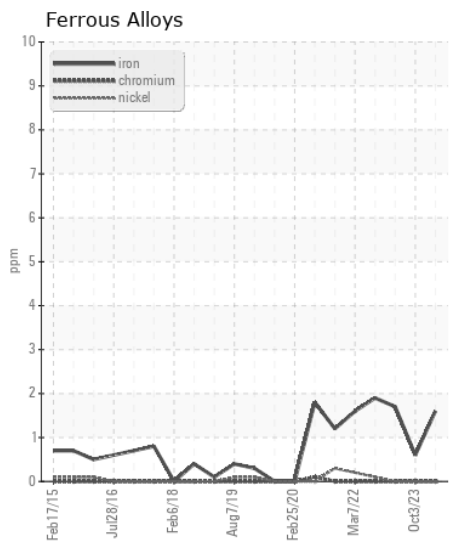
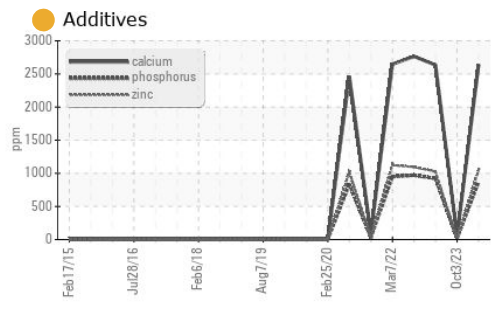
## CONTAMINATION

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

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.  
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0862813</b>	WC0678259	WC0678267
Sample Date		Client Info		<b>06 May 2024</b>	03 Oct 2023	28 Feb 2023
Machine Age	yrs	Client Info		<b>0</b>	0	0
Oil Age	yrs	Client Info		<b>42</b>	3	2
Filter Age	yrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185(m)	>85	<b>2</b>	<1	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>60	<b>8</b>	2	5
Copper	ppm	ASTM D5185(m)	>7	<b>&lt;1</b>	6	<1
Tin	ppm	ASTM D5185(m)	>40	<b>2</b>	11	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	▲ VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Water		WC Method	>2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>2633</b>	7849	869
Particles >6µm		ASTM D7647	>2500	<b>837</b>	847	239
Particles >14µm		ASTM D7647	>160	<b>52</b>	40	13
Particles >21µm		ASTM D7647	>40	<b>12</b>	8	3
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	<b>19/17/13</b>	20/17/12	17/15/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>1</b>	0	1
Boron	ppm	ASTM D5185(m)		<b>3</b>	<1	3
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	0	3
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		● <b>25</b>	<1	● 24
Calcium	ppm	ASTM D5185(m)		● <b>2637</b>	57	● 2634
Phosphorus	ppm	ASTM D5185(m)		● <b>875</b>	21	● 923
Zinc	ppm	ASTM D5185(m)		● <b>1050</b>	22	● 1028
Sulfur	ppm	ASTM D5185(m)		● <b>5592</b>	153	● 5685
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>2.18</b>	0.13	2.17
Visc @ 40°C	cSt	ASTM D7279(m)	44.0	<b>41.3</b>	43.1	40.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0862813  
**Lab Number** : 02634354  
**Unique Number** : 5775507  
**Test Package** : IND 2 ( Additional Tests: BottomAnalysis, FilterPatch, PrtFilter, TALSMA)

**ALGONQUIN POWER SYSTEMS INC.**  
 354 DAVIS ROAD  
 OAKVILLE, ON  
 CA L6J 2X1  
 (Contact: Antonino Champ Fernando  
 antoninoChamp.fernando@algonquinpower.com  
 T: (905)465-7065  
 F: x:

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.