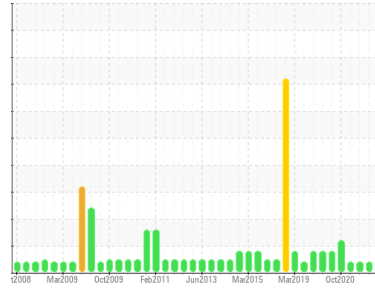




# PROBLEM SUMMARY

Sample Rating Trend



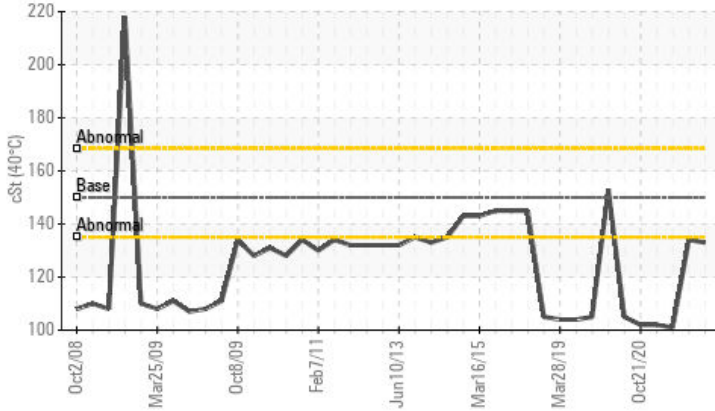
## VISCOSITY



Area  
**DIAMINE**  
Machine Id  
**#418 - #3 NH3 Pump**  
Component  
**Pump**  
Fluid  
**ESSO TERESSTIC ISO 150 (75 GAL)**

### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Visc @ 40°C	cSt	ASTM D7279(m)	150	▲ 133	▲ 134	▲ 101

Customer Id: DUPMAI  
Sample No.: WC0736058  
Lab Number: 02546669  
Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1  
(289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

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

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

### 31 Mar 2022 Diag: Bill Quesnel

#### VISCOSITY



Resample at the next service interval to monitor. Diagnostician's Note: We see the oil was changed. There was likely residual ISO 100 present lowering the viscosity of the new product. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

view report



### 04 Apr 2021 Diag: Kevin Marson

#### VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 27 Nov 2020 Diag: Kevin Marson

#### VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

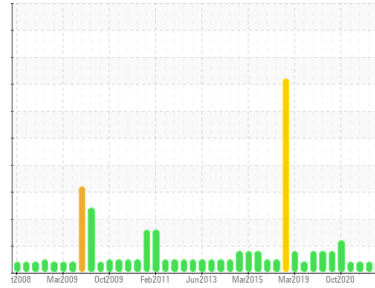
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**DIAMINE**  
 Machine Id  
**#418 - #3 NH3 Pump**  
 Component  
**Pump**  
 Fluid  
**ESSO TERESSTIC ISO 150 (75 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		<b>WC0736058</b>	WC0610506	WC969296
Sample Date	Client Info		<b>20 Mar 2023</b>	31 Mar 2022	04 Apr 2021
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m) >90	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >7	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m) >12	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >9	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m) 1.3	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	2	4
Zinc	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	1
Sulfur	ppm	ASTM D5185(m)	<b>7745</b>	8324	3052
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

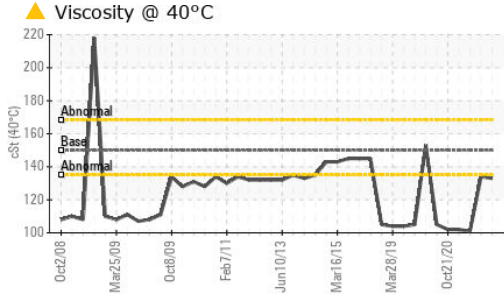
	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >60	<b>1</b>	2	3
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

### VISUAL

	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
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*	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

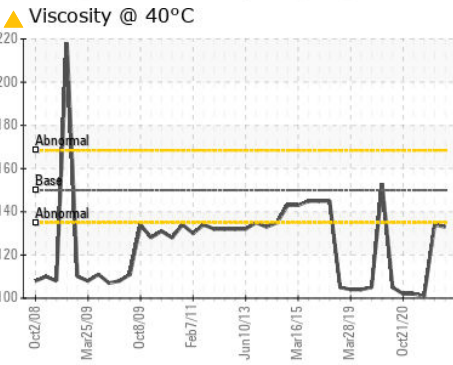
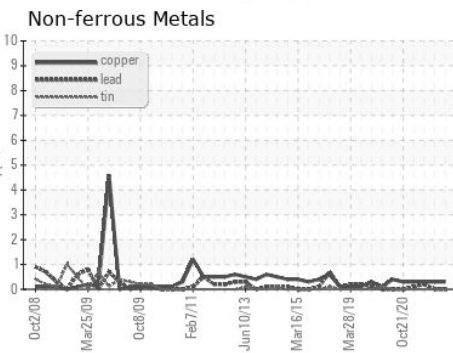
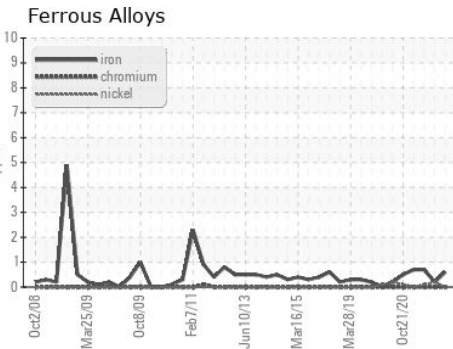


FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 133	▲ 134	▲ 101

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0736058 **Received** : 21 Mar 2023  
**Lab Number** : 02546669 **Diagnosed** : 21 Mar 2023  
**Unique Number** : 5551679 **Diagnostician** : Bill Quesnel  
**Test Package** : IND 1

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.

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