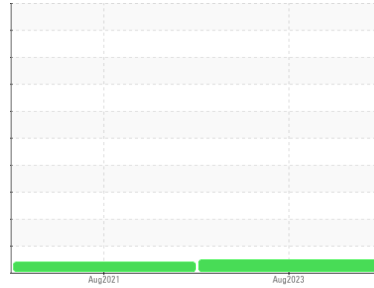




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[6157360]**  
 Machine Id  
**5001-PR29-TAB14**  
 Component  
**Gearbox**  
 Fluid  
**ESSO NUTO H ISO 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>CB0031460</b>	CB0030385	---
Sample Date	Client Info			<b>03 Aug 2023</b>	29 Aug 2021	---
Machine Age	hrs	Client Info		<b>0</b>	2397	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

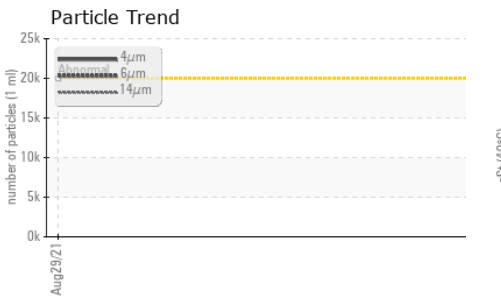
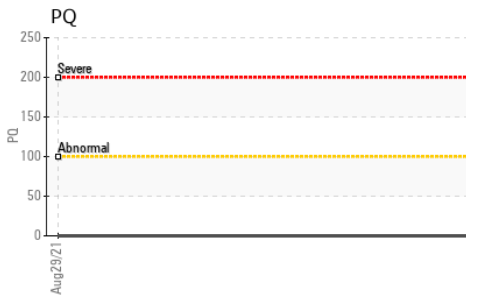
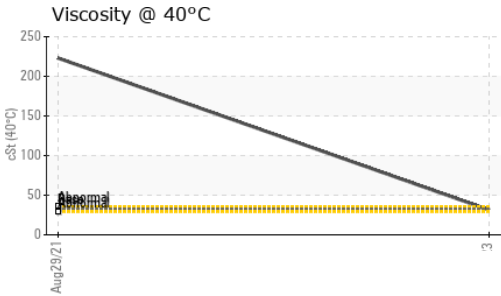
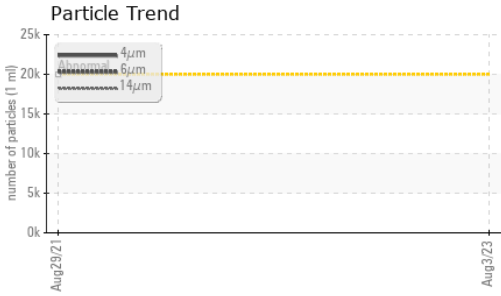
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	0	---
Iron	ppm	ASTM D5185(m)	>200	<b>0</b>	2	---
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	0	---
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>200	<b>2</b>	2	---
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>3</b>	0	---
Calcium	ppm	ASTM D5185(m)		<b>43</b>	1	---
Phosphorus	ppm	ASTM D5185(m)		<b>361</b>	211	---
Zinc	ppm	ASTM D5185(m)		<b>348</b>	14	---
Sulfur	ppm	ASTM D5185(m)		<b>1025</b>	192	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	2	---
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>4596</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>1431</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>152</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>66</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>8</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/18/14</b>	---	---

# OIL ANALYSIS REPORT

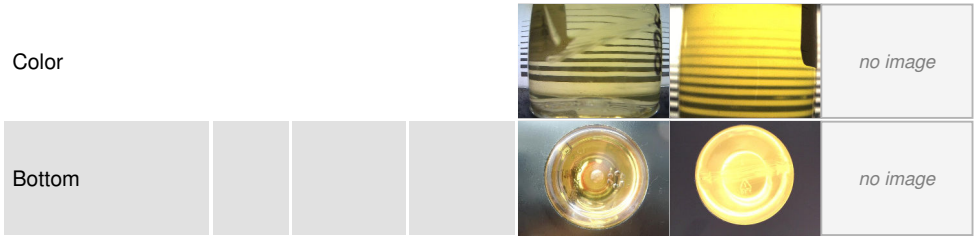


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	.40	<b>0.40</b>	0.46	---

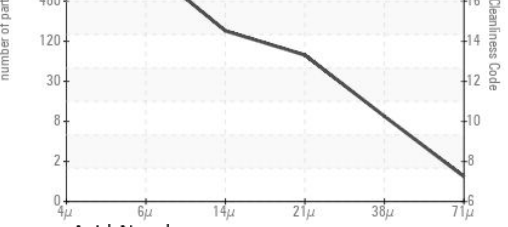
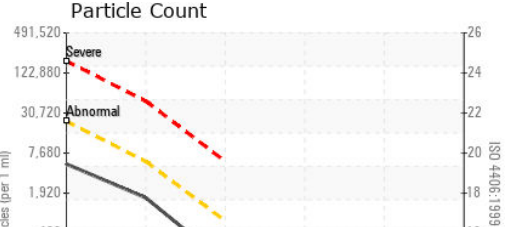
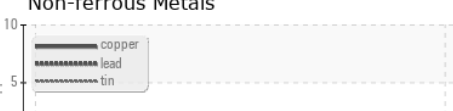
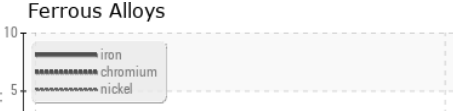
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	32.6	<b>31.3</b>	▲ 223	---

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CB0031460 **Received** : 15 Aug 2023  
**Lab Number** : **02575928** **Diagnosed** : 16 Aug 2023  
**Unique Number** : 5628988 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Synovos/Apotex**  
 50 Steinway Blvd.  
 Etobicoke, ON  
 CA M9W 6Y3  
 Contact: Calvin Shum  
 cshum@apotex.com

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.