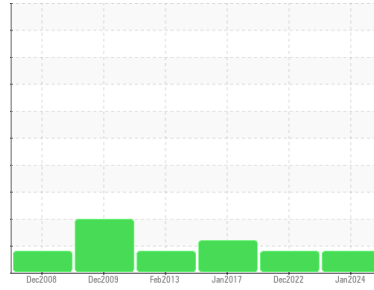




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**022-000-000-0000 (S/N 10273)**

Component  
**Hydraulic System**

Fluid  
**SHELL TELLUS S3 M 46 (45 GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0776320</b>	WC0534995	WC12275805
Sample Date	Client Info			<b>09 Jan 2024</b>	21 Dec 2022	05 Jan 2017
Machine Age	yrs	Client Info		<b>20</b>	0	0
Oil Age	yrs	Client Info		<b>2</b>	0	0
Oil Changed	Client Info			<b>Not Changed</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>3</b>	3	6
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>20	<b>21</b>	21	18
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

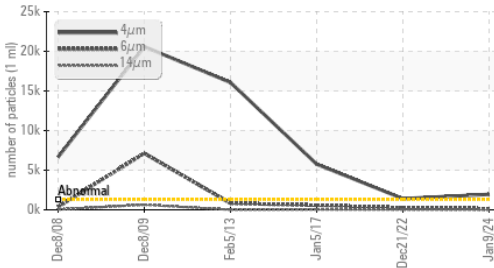
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	3	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185m	0	<b>40</b>	41	43
Phosphorus	ppm	ASTM D5185m	106	<b>253</b>	245	307
Zinc	ppm	ASTM D5185m	0	<b>233</b>	240	349
Sulfur	ppm	ASTM D5185m		<b>2186</b>	2409	1341

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	16

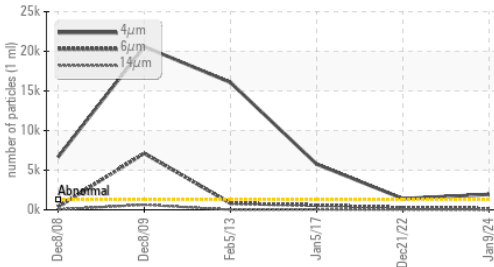
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	▲ <b>1951</b>	▲ 1405	▲ 5759
Particles >6µm		ASTM D7647	>320	<b>132</b>	246	▲ 562
Particles >14µm		ASTM D7647	>40	<b>4</b>	23	31
Particles >21µm		ASTM D7647	>10	<b>1</b>	4	12
Particles >38µm		ASTM D7647	>3	<b>0</b>	1	4
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	3
Oil Cleanliness		ISO 4406 (c)	>17/15/12	▲ <b>18/14/9</b>	▲ 18/15/12	▲ 20/16/12

# OIL ANALYSIS REPORT

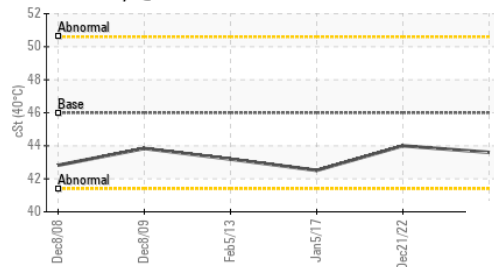
▲ Particle Trend



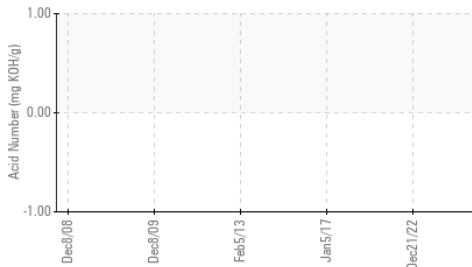
▲ Particle Trend



Viscosity @ 40°C



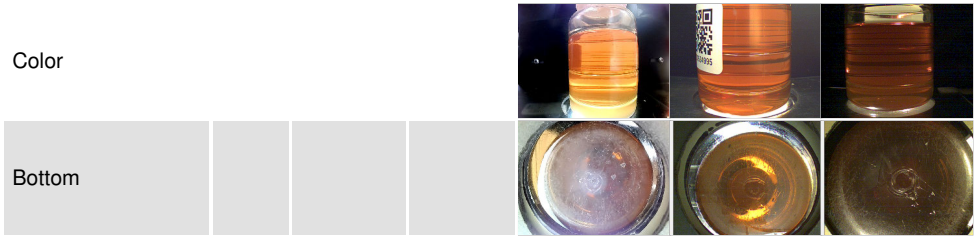
Acid Number



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

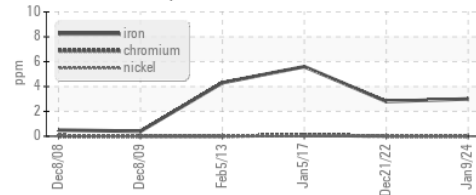
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	<b>43.6</b>	44.0	42.51

SAMPLE IMAGES	method	limit/base	current	history1	history2
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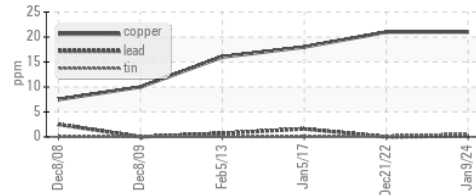


## GRAPHS

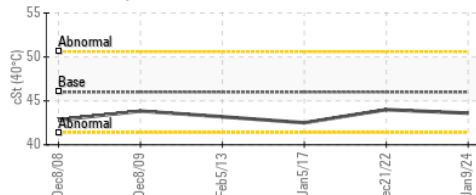
Ferrous Alloys



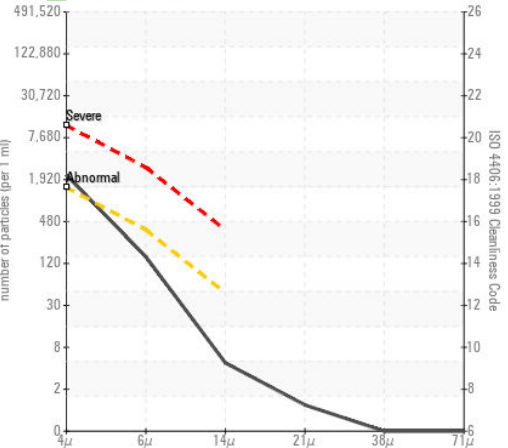
Non-ferrous Metals



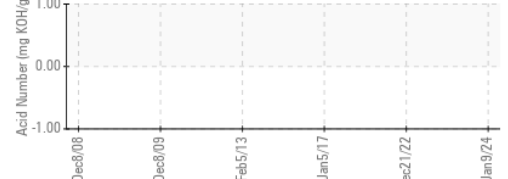
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0776320 **Received** : 11 Jan 2024  
**Lab Number** : 06057965 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10829347 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**PRECISION MEDICAL PRODUCTS INC**  
 44 DENVER RD  
 DENVER, PA  
 US 17517  
 Contact: Mike Weaver  
 m.weaver@precmed.net  
 T: (717)335-3700  
 F: (717)335-0007

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)