



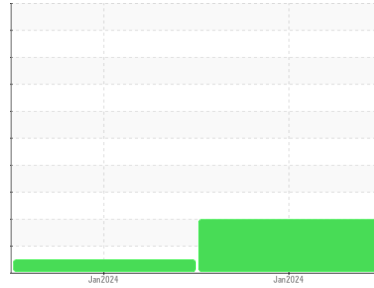
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**NEW OIL TEST**  
 Machine Id  
**4059 Quinplex H1 Penetrating Oil**  
 Component  
**Bulk Fluid Tank**  
 Fluid  
**{not provided} (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil 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. The water content is negligible.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 15 range, advise investigate. 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>WC</b>	WC	---
Sample Date	Client Info	<b>22 Jan 2024</b>	22 Jan 2024	---
Machine Age	hrs Client Info	<b>0</b>	0	---
Oil Age	hrs Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ATTENTION</b>	NORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	<b>0</b>	0	---
Chromium	ppm ASTM D5185(m)	<b>0</b>	0	---
Nickel	ppm ASTM D5185(m)	<b>0</b>	0	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---
Lead	ppm ASTM D5185(m)	<b>0</b>	0	---
Copper	ppm ASTM D5185(m)	<b>0</b>	0	---
Tin	ppm ASTM D5185(m)	<b>0</b>	0	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	---
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>&lt;1</b>	<1	---
Calcium	ppm ASTM D5185(m)	<b>&lt;1</b>	1	---
Phosphorus	ppm ASTM D5185(m)	<b>432</b>	252	---
Zinc	ppm ASTM D5185(m)	<b>2</b>	1	---
Sulfur	ppm ASTM D5185(m)	<b>326</b>	1664	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<b>41</b>	0	---
Sodium	ppm ASTM D5185(m)	<b>2</b>	2	---
Potassium	ppm ASTM D5185(m)	<b>&gt;20</b>	<1	---
Water	% ASTM D6304*	<b>0.004</b>	---	---
ppm Water	ppm ASTM D6304*	<b>41</b>	---	---

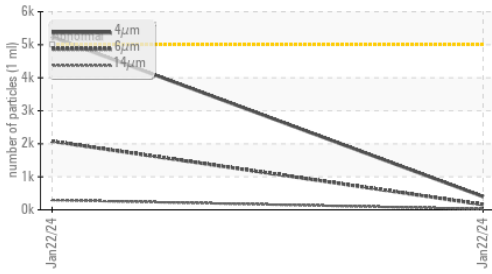
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 5239</b>	400	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 2075</b>	157	---
Particles >14µm	ASTM D7647 >160	<b>▲ 296</b>	24	---
Particles >21µm	ASTM D7647 >40	<b>▲ 76</b>	6	---
Particles >38µm	ASTM D7647 >10	<b>4</b>	1	---
Particles >71µm	ASTM D7647 >3	<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 20/18/15</b>	16/14/12	---

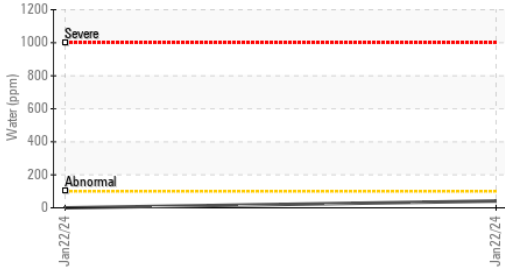


# OIL ANALYSIS REPORT

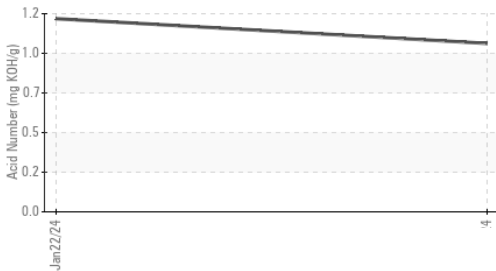
▲ Particle Trend



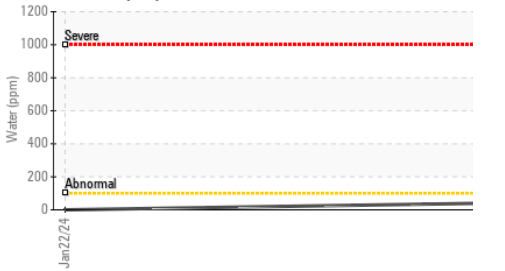
Water (KF)



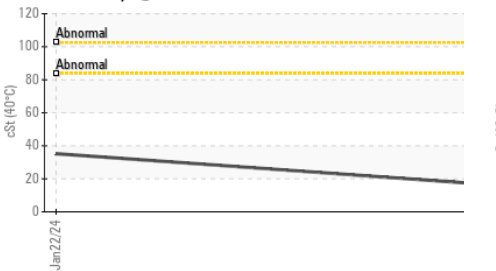
Acid Number



Water (KF)



Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.02</b>	1.17	---

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>NONE</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*		<b>.5%</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)		<b>16.6</b>	35.2	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				no image
Bottom				no image

GRAPHS

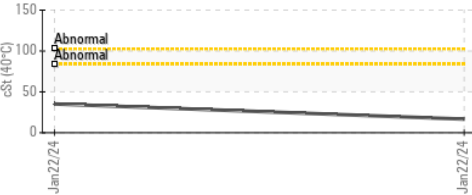
▲ Ferrous Alloys



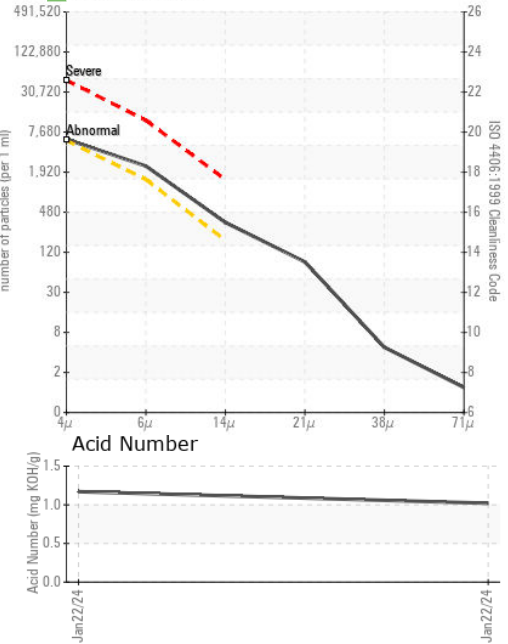
▲ Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Particle Count



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC **Received** : 23 Jan 2024  
**Lab Number** : 02610598 **Diagnosed** : 26 Jan 2024  
**Unique Number** : 5711684 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF )

**HIRAM WALKER & SONS LTD.**  
 2072 RIVERSIDE DRIVE EAST, BOX 2518  
 WINDSOR, ON  
 CA N8Y 4S5  
 Contact: Matt Morand  
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 T: (519)561-5359  
 F: (519)971-5719

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.