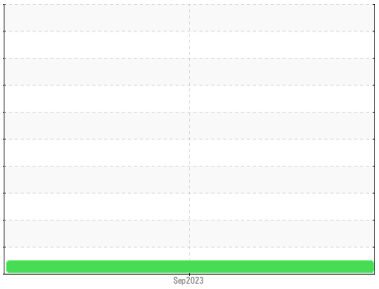
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
HYDRAULIC OIL NEW
Component
New (Unused) Oil
Fluid
QUAKER CHEMICAL QUINTOLUBRIC 888-68 (--- GAL)

DIAGNOSIS

Recommendation
This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Wear
{not applicable}

Contamination
There is no indication of any contamination in the new (unused) oil.

Fluid Condition
The condition of the oil is suitable for service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0865007**	---	---
Sample Date		Client Info		**27 Sep 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>5	**<1**	---	---
Chromium	ppm	ASTM D5185(m)	>5	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>5	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>5	**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>5	**0**	---	---
Lead	ppm	ASTM D5185(m)	>5	**0**	---	---
Copper	ppm	ASTM D5185(m)	>5	**<1**	---	---
Tin	ppm	ASTM D5185(m)	>5	**207**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**1**	---	---
Barium	ppm	ASTM D5185(m)	0	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	0	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**0**	---	---
Calcium	ppm	ASTM D5185(m)	10	**<1**	---	---
Phosphorus	ppm	ASTM D5185(m)	200	**97**	---	---
Zinc	ppm	ASTM D5185(m)	125	**<1**	---	---
Sulfur	ppm	ASTM D5185(m)	1000	**466**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**2**	---	---
Sodium	ppm	ASTM D5185(m)		**3**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*		**4.4**	---	---
Sulfation	Abs/.1mm	ASTM D7415*		**169.6**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**177.8**	---	---

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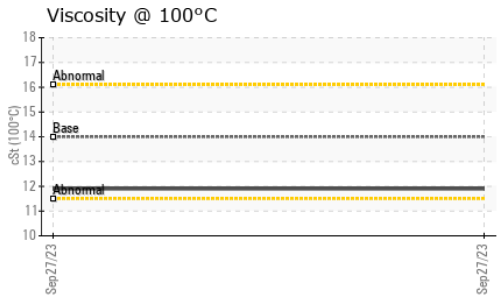
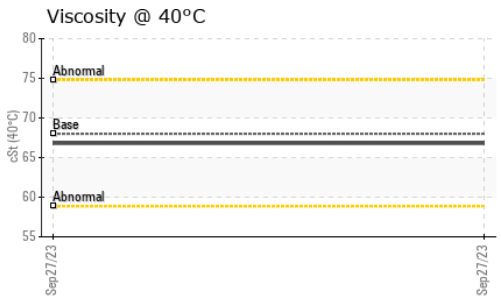


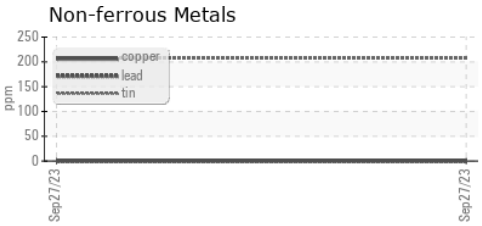


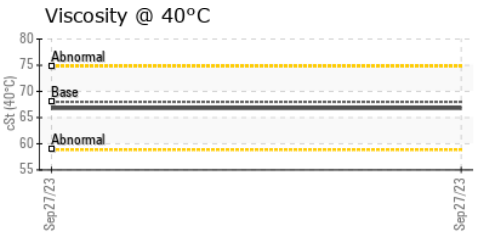
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	**66.8**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14	**11.9**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	215	**176**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS





ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0865007 **Received** : 28 Sep 2023
Lab Number : 02585843 **Diagnosed** : 29 Sep 2023
Unique Number : 5654909 **Diagnostician** : Kevin Marson
Test Package : IND 1 (Additional Tests: FT-IR, ICP-NewOil, KV100, VI)

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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