PROBLEM SUMMARY

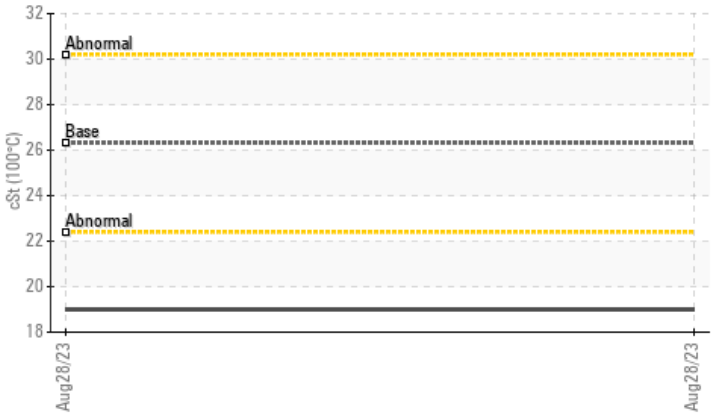
Sample Rating Trend

OFF SPEC

Machine Id
Reference SWEPCO 757 ISO 220
Component
New (Unused) Oil
Fluid
SWEPCO 757 ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY

Viscosity @ 100°C



Particle Trend

RECOMMENDATION

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. We recommend an early resample to monitor this condition. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **28031**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **3022**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/19/13**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.3	▲ **19.0**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	158	▲ **104**	---	---

Customer Id: HEXEDM
Sample No.: WC0820462
Lab Number: 02580531
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

OFF SPEC

Machine Id
Reference SWEPCO 757 ISO 220
Component
New (Unused) Oil
Fluid
SWEPCO 757 ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. We recommend an early resample to monitor this condition. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

Wear

{not applicable}

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0820462**	---	---
Sample Date		Client Info		**28 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

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	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>5	**0**	---	---
Copper	ppm	ASTM D5185(m)	>5	**0**	---	---
Tin	ppm	ASTM D5185(m)	>5	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**3**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

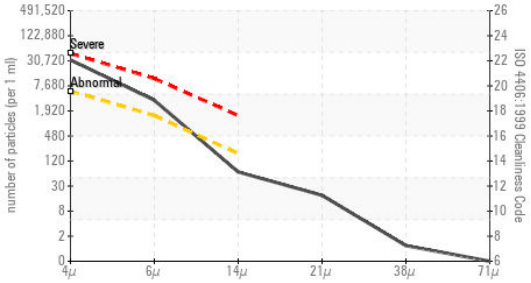
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	---	---
Barium	ppm	ASTM D5185(m)		**0**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**<1**	---	---
Calcium	ppm	ASTM D5185(m)		**3**	---	---
Phosphorus	ppm	ASTM D5185(m)		**206**	---	---
Zinc	ppm	ASTM D5185(m)		**3**	---	---
Sulfur	ppm	ASTM D5185(m)		**7770**	---	---
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	**0**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*		**3.2**	---	---
Sulfation	Abs/.1mm	ASTM D7415*		**15.5**	---	---

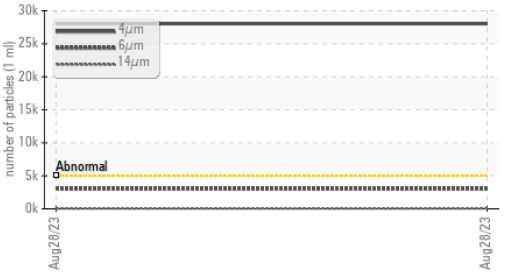
OIL ANALYSIS REPORT

Particle Count

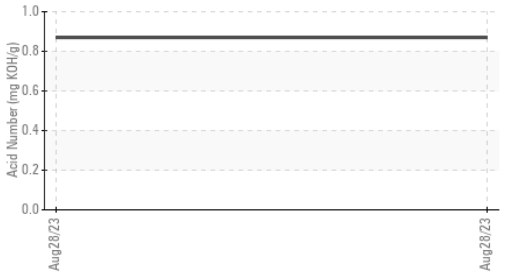


Viscosity @ 100°C

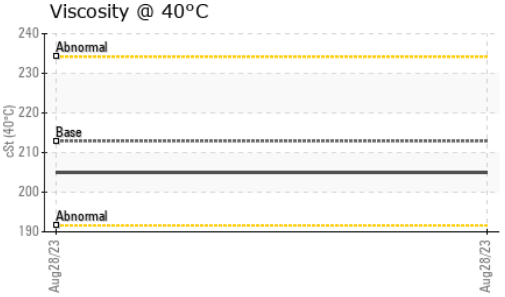
Particle Trend



Acid Number



Viscosity @ 40°C

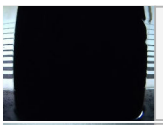


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **28031**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **3022**	---	---
Particles >14µm		ASTM D7647	>160	**58**	---	---
Particles >21µm		ASTM D7647	>40	**16**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/19/13**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**9.8**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.87**	---	---

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)	212.9	**205**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.3	▲ **19.0**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	158	▲ **104**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Hexion Canada Inc. - EDMONTON PLANT**
Sample No. : WC0820462 **Received** : 05 Sep 2023 12621 - 156th Street NW
Lab Number : 02580531 **Diagnosed** : 07 Sep 2023 Edmonton, AB
Unique Number : 5633591 **Diagnostician** : Kevin Marson CA T5V 1E1
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, VI)Contact: Justin Woodward

To discuss this sample report, contact Customer Service at 1-800-268-2131. justin.woodward@hexion.com
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)447-8469
Validity of results and interpretation are based on the sample and information as supplied. F: