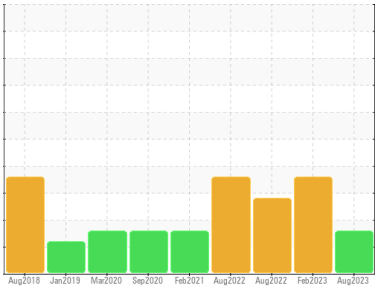
PROBLEM SUMMARY

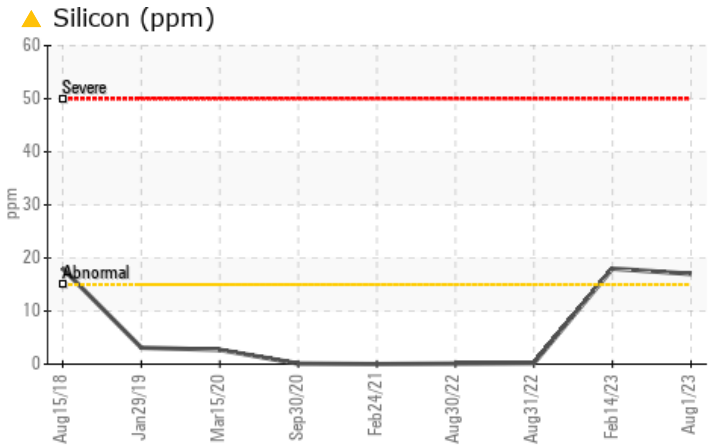
Sample Rating Trend



DIRT

Area
076 G1 [2967536]
Machine Id
B-9001 Blower (S/N 46910)
Component
Blower
Fluid
SHELL CORENA P 100 (12 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Filter oil if possible. No other action required at this time. Resample at next normal interval.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>15	▲ **17**	▲ 18	<1

Customer Id: HEXGEI
Sample No.: PLS0000671
Lab Number: 05935313
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Mike Johnson +1 (615)771-6030
mike.johnson@amrri.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Feb 2023 Diag: Mike Johnson

DIRT

Investigate possible sources of silicon contamination. Filter oil if possible. No other action required at this time. Resample at next normal interval.Wear particles are low and accpetable. Silicon particles are notable. Particle contamination is elevated. Filtration can help extend machine life. Fluid health indicators are steady when compared with previous samples. They do not match the reference typicals.

view report

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31 Aug 2022 Diag: Mike Johnson

ADDITIVES

Sample was taken one day after previous sample. No change in diagnosis. Verify oil profile reference to ensure correct reporting. Filter oil if possible using B6=75 filter media or better. No other action required at this time. Sample at next normal interval.Wear particles are low and steady. Contamination is slightly elevated. Filtering oil can lengthen machine life. Fluid profile does not match the oil reference on file. Please verify that the oil on file with WearCheck is the oil currently being used in the machine. Oil profile is steady from previous samples.

view report

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30 Aug 2022 Diag: Mike Johnson

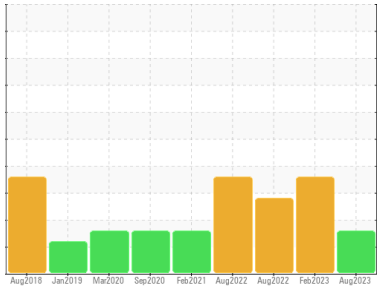
ADDITIVES

Verify oil profile reference to ensure correct reporting. Filter oil if possible using B6=75 filter media or better. No other action required at this time. Sample at next normal interval.Wear particles are low and steady. Contamination is slightly elevated. Filtering oil can lengthen machine life. Fluid profile does not match the oil reference on file. Please verify that the oil on file with WearCheck is the oil currently being used in the machine. Oil profile is steady from previous samples.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
076 G1 [2967536]
Machine Id
B-9001 Blower (S/N 46910)
Component
Blower
Fluid
SHELL CORENA P 100 (12 GAL)

DIAGNOSIS

▲ Recommendation
Filter oil if possible. No other action required at this time. Resample at next normal interval.

Wear
Wear particles are low and accpetable.

▲ Contamination
Silicon particles are notable. Particle contamination is on par with new unfiltered oil. Filtration can help extend machine life.

Fluid Condition
Fluid health indicators are steady when compared with previous samples. They do not match the reference typicals for Shell Corena P 100.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PLS0000671**	PLS0000548	PLS0000560
Sample Date		Client Info		**01 Aug 2023**	14 Feb 2023	31 Aug 2022
Machine Age	mths	Client Info		**24**	4	60
Oil Age	mths	Client Info		**12**	4	12
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**22**	23	24
Iron	ppm	ASTM D5185m	>20	**2**	1	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	<1
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>20	**2**	1	<1
Tin	ppm	ASTM D5185m	>20	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	<1
Barium	ppm	ASTM D5185m	0	**0**	<1	2
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m	0	**<1**	4	<1
Calcium	ppm	ASTM D5185m	60	**2**	1	▲ <1
Phosphorus	ppm	ASTM D5185m	0	**87**	95	▲ 87
Zinc	ppm	ASTM D5185m	190	**0**	3	▲ <1
Sulfur	ppm	ASTM D5185m	1300	**1391**	1114	▲ 12

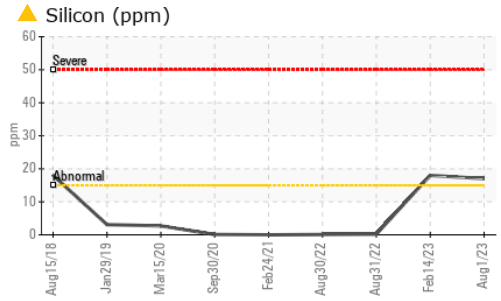
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ **17**	▲ 18	<1
Sodium	ppm	ASTM D5185m		**1**	1	0
Potassium	ppm	ASTM D5185m	>20	**0**	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		**15.0**	14.6	18.3
Sulfation	Abs/.1mm	*ASTM D7415		**147.4**	136.9	157.5

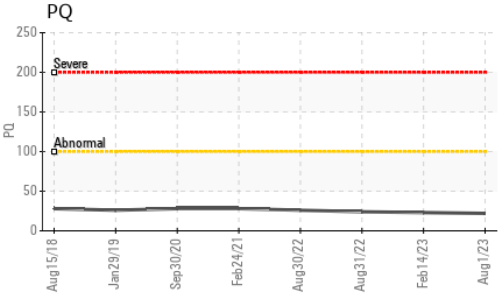
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**4453**	▲ 17873	2322
Particles >6µm		ASTM D7647	>640	**979**	▲ 3024	743
Particles >14µm		ASTM D7647	>80	**61**	▲ 124	▲ 100
Particles >21µm		ASTM D7647	>20	**17**	▲ 28	▲ 32
Particles >38µm		ASTM D7647	>4	**1**	1	1
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**19/17/13**	▲ 21/19/14	▲ 18/17/14

OIL ANALYSIS REPORT

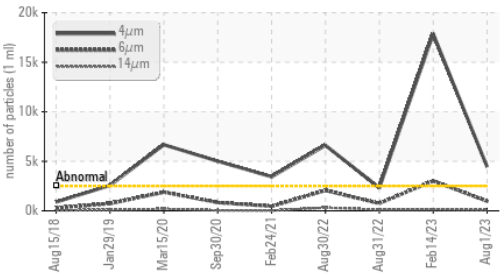
Silicon (ppm)



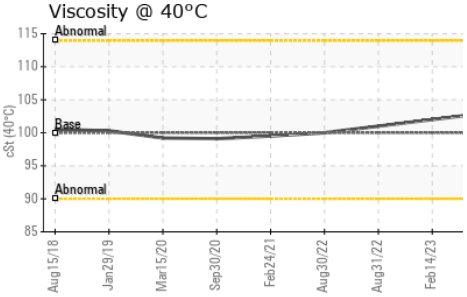
PQ



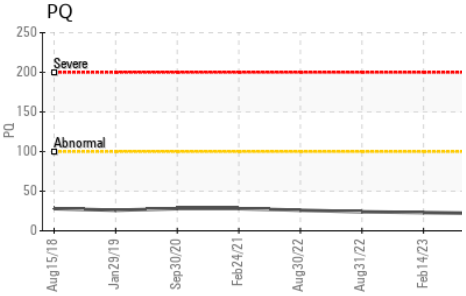
Particle Trend



Viscosity @ 40°C



PQ

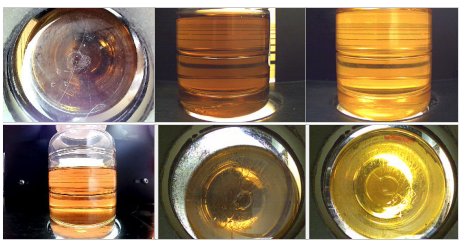


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**189.6**	189.3	208.9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	**0.45**	0.34	0.48

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

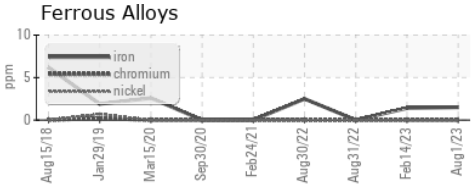
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	**103**	102	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

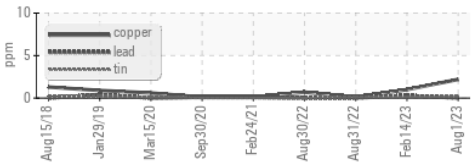


GRAPHS

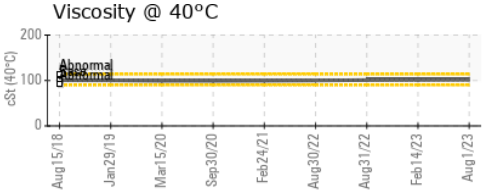
Ferrous Alloys



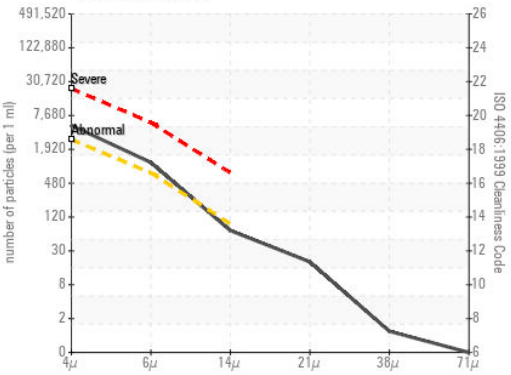
Non-ferrous Metals



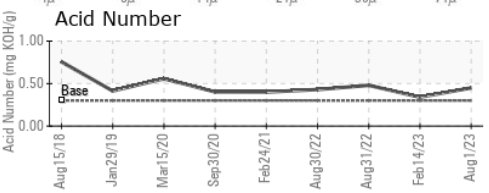
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000671 **Received** : 25 Aug 2023
Lab Number : 05935313 **Diagnosed** : 28 Aug 2023
Unique Number : 10620584 **Diagnostician** : Mike Johnson
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

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)

HEXION INC - GONZALES PLANT
4338 HWY 73
GEISMAR, LA
US 70734
Contact: Shannon Ourso
shannon.ourso@hexion.com;mike.johnson@amrri.com
T:
F: