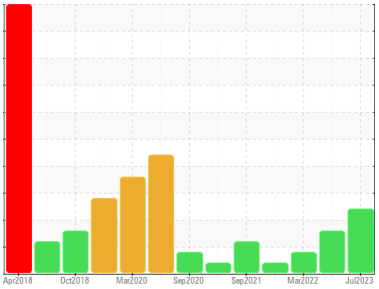
PROBLEM SUMMARY

Sample Rating Trend

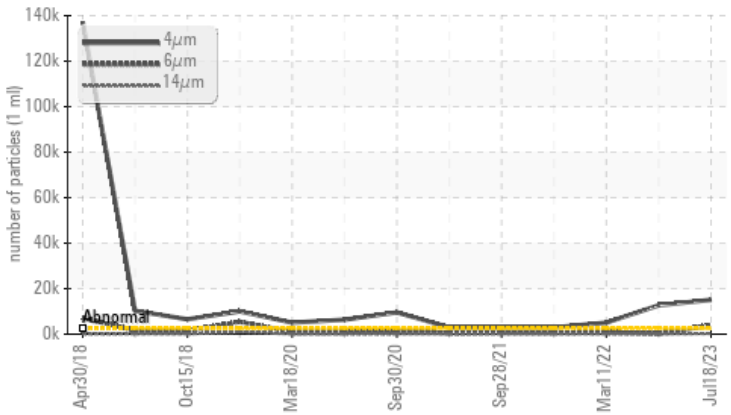


ISO

Area
AG FORMALDEHYDE
Machine Id
FM BLOWER-SILVER PROCESS FANBL11001 GE (S/N 2263591 GEAR END)
Component
Blower
Fluid
CHEVRON DELO TORQFORCE SAE 30 (4 GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

No corrective actions at this time. Continue to sample at the standard interval.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>2500	▲ **15093**	▲ 12672	▲ 5061
Particles >6µm		ASTM D7647	>640	▲ **3896**	288	▲ 848
Particles >14µm		ASTM D7647	>80	▲ **261**	22	36
Particles >21µm		ASTM D7647	>20	▲ **65**	8	8
Particles >38µm		ASTM D7647	>4	▲ **6**	1	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **21/19/15**	▲ 21/15/12	▲ 20/17/12

Customer Id: HEXLAG
Sample No.: PLS0000625
Lab Number: 05903694
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.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

28 Nov 2022 Diag: Mike Johnson

WEAR

Investigate machine for other possible indicators of wear (excess heat, slop, vibration analysis). Filter if possible using B6=75 media or better. Resample at next normal interval.Iron wear particles are elevated from previous samples. This could indicate accelerated wear. Particle contamination is slightly elevated. Filtration can help extend machine life. Fluid health is acceptable for continued use.

view report

11 Mar 2022 Diag: Doug Bogart

ISO

Filter oil with B6=75 filter media or better if possible. No other action required at this time. Resample at next normal interval.Wear particles are low and steady. Particle count is slightly elevated and should be filtered if possible. Fluid health indicators are acceptable for continued use.

view report

31 Dec 2021 Diag: Mike Johnson

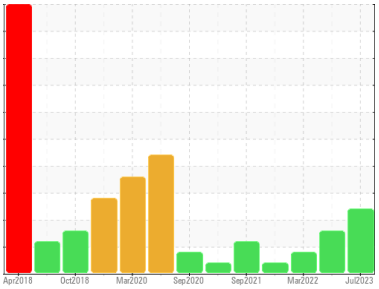
ISO

Filter oil if possible using B6=75 filter media or better. Resample at next normal interval.Wear indicators are low and acceptable. Contamination is on par with noew unfiltered oil. Fluid health is acceptable for continued use.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
AG FORMALDEHYDE
Machine Id
FM BLOWER-SILVER PROCESS FANBL11001 GE (S/N 2263591 GEAR END)
Component
Blower
Fluid
CHEVRON DELO TORQFORCE SAE 30 (4 GAL)

DIAGNOSIS

Recommendation
No corrective actions at this time. Continue to sample at the standard interval.

Wear
The wear rate is low and steady

Contamination
Oil cleanliness is on par with new unfiltered oil. It would be useful to filter the oil while the machine is operating using side-stream (kidney-loop) filtration, with elements rates for B6=75 or better.

Fluid Condition
Fluid health conditions indiate that the oil is acceptable for continued use.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PLS0000625**	PLS0000621	PLS0000308
Sample Date		Client Info		**18 Jul 2023**	28 Nov 2022	11 Mar 2022
Machine Age	hrs	Client Info		**6000**	6000	6000
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**10**	12	15
Iron	ppm	ASTM D5185m	>20	**4**	▲ 19	3
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	1	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	<1
Copper	ppm	ASTM D5185m	>20	**0**	<1	<1
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

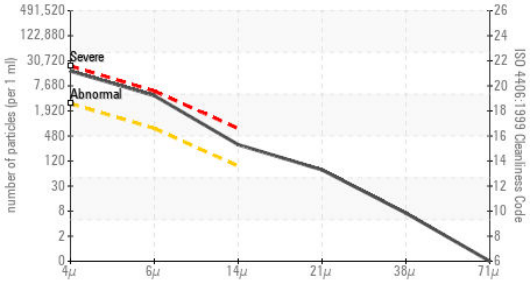
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4	**0**	6	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	2	2
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	13	**11**	11	11
Calcium	ppm	ASTM D5185m	4000	**3865**	3413	3612
Phosphorus	ppm	ASTM D5185m	990	**970**	875	906
Zinc	ppm	ASTM D5185m	1310	**1251**	1046	1062
Sulfur	ppm	ASTM D5185m	3010	**4519**	3795	2926

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**5**	12	5
Sodium	ppm	ASTM D5185m		**<1**	0	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	1	0

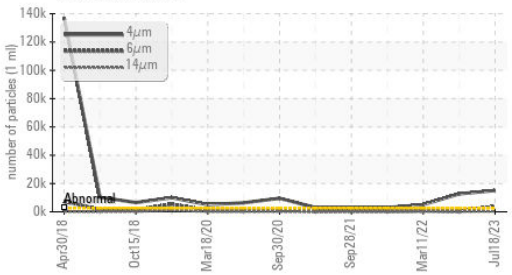
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0.1	0
Nitration	Abs/cm	*ASTM D7624		**3.4**	3.9	3.6
Sulfation	Abs/.1mm	*ASTM D7415		**12.2**	13.4	13.1

OIL ANALYSIS REPORT

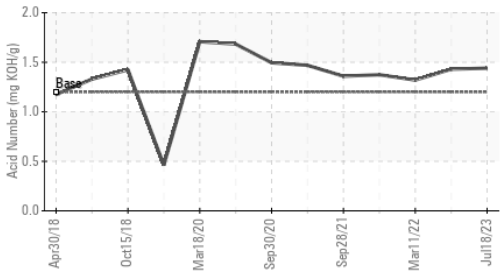
Particle Count



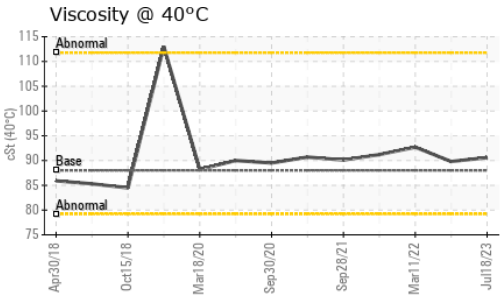
Particle Trend



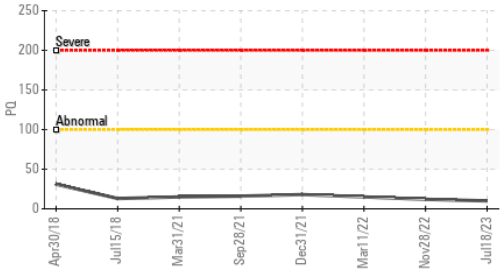
Acid Number



Viscosity @ 40°C



PQ

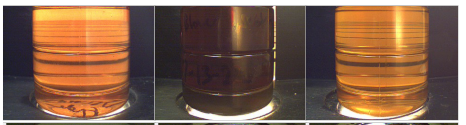


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **15093**	▲ 12672	▲ 5061
Particles >6µm		ASTM D7647	>640	▲ **3896**	288	▲ 848
Particles >14µm		ASTM D7647	>80	▲ **261**	22	36
Particles >21µm		ASTM D7647	>20	▲ **65**	8	8
Particles >38µm		ASTM D7647	>4	▲ **6**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **21/19/15**	▲ 21/15/12	▲ 20/17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**5.9**	6.0	6.0
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	**1.44**	1.43	1.32

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	88	**90.6**	89.8	92.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000625 **Received** : 20 Jul 2023
Lab Number : 05903694 **Diagnosed** : 23 Aug 2023
Unique Number : 10565050 **Diagnostician** : Doug Bogart
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 - LA GRANDE PLANT
62575 OREGON HWY 82
LA GRANDE, OR
US 97850
Contact: IAN PARKS
ian.parks@hexion.com
T: (541)963-7155
F: (541)963-0957