

PROBLEM SUMMARY

Sample Rating Trend

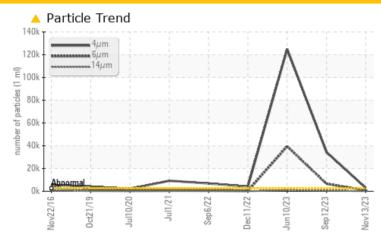
ISO

FORMALDEHYDE PLANT **B2** Blower (S/N LR97-764)

Component Blower

ROYAL PURPLE SYNFILM 100 (15 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval.

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMA	L SEVERE	SEVERE				
Particles >4μm	ASTM D7647 >25	00 4 2947	34462	124898				
Particles >6μm	ASTM D7647 >64	0 🔺 805	6659	39475				
Particles >14μm	ASTM D7647 >80	<u>^</u> 83	667	1089				
Particles >21µm	ASTM D7647 >20	<u>^</u> 29	234	1 67				
Oil Cleanliness	ISO 4406 (c) >18/	16/13 🔺 19/17/14	22/20/17	2 4/22/17				

Customer Id: HEXHOPAR Sample No.: PLS0000732 Lab Number: 06011434 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

12 Sep 2023 Diag: Mike Johnson

ISO



Significant contamination event or poor sampling has occurred. Assuming the sample was properly handled the actions recommended are to change oil and investigate possible sources of ingression (broken seals, broken/missing breathers for example). Resample at next normal interval. Wear particles are low and acceptable indicating this is a new development. Contamination is severely elevated warranting an oil flush and change. Fluid viscosity has dropped by 20%. The blower has been potentially topped up with the incorrect oil.



10 Jun 2023 Diag: Mike Johnson

DIRT



Significant contamination event or poor sampling has occurred. Assuming the sample was properly handled the actions recommended are to change oil and investigate possible sources of ingression (broken seals, broken/missing breathers for example). Resample at next normal interval. Wear particles are low and acceptable indicating this is a new development. Contamination is severely elevated warranting an oil flush and change. Fluid health is acceptable for continued use provided that contamination can be brought under control.



11 Dec 2022 Diag: Mike Johnson

ISO



Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is on par with new unfiltered oil. Filtration can help extend machine life. Fluid health is acceptable for continued use.





OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Number

Sample Rating Trend

Client Info



PLS0000608

FORMALDEHYDE PLANT Machine Id B2 Blower (S/N LR97-764)

Component

Blower

ROYAL PURPLE SYNFILM 100 (15 GAL)

DIAGNOSIS

Recommendation

Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval.

Wear

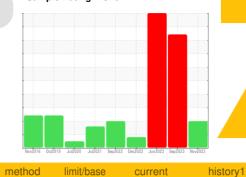
Wear particles are low and acceptable.

Contamination

Particle contamination is on par with new unfiltered oil. Filtration can help extend machine life.

Fluid Condition

Fluid health is acceptable for continued use.



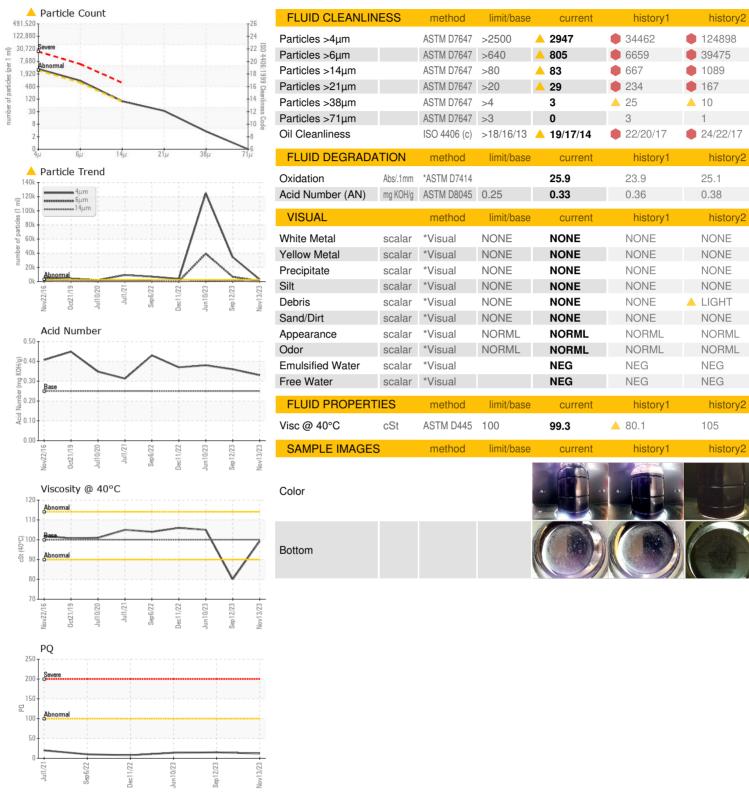
PLS0000732

PLS0000746

Sample Number		Client Inio		PLS0000732	PLS0000746	PLS0000606
Sample Date		Client Info		13 Nov 2023	12 Sep 2023	10 Jun 2023
Machine Age	mths	Client Info		3	18	15
Oil Age	mths	Client Info		3	0	15
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	15	14
Iron	ppm	ASTM D5185m	>20	0	0	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	2
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	8	<1
Copper	ppm	ASTM D5185m	>20	<1	2	3
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	68	81	45
Calcium	ppm	ASTM D5185m		0	2	<1
Phosphorus	ppm	ASTM D5185m		0	3	7
Zinc	ppm	ASTM D5185m		0	0	14
Sulfur	ppm	ASTM D5185m		18551	18550	18215
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon						
O	ppm	ASTM D5185m	>15	<1	2	273
Sodium	ppm	ASTM D5185m ASTM D5185m	>15	<1 <1	3	273
			>15			*
Sodium	ppm	ASTM D5185m		<1	3	1
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	<1 0	3 0	1 <1
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>20	<1 0 current	3 0 history1	1 <1 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20	<1 0 current 0.1	3 0 history1	1 <1 history2 0.1



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: PLS0000732 : 06011434 : 10750578

Received : 17 Nov 2023 Diagnosed Diagnostician

: 06 Dec 2023 : Mike Johnson : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

US 71801 Contact: JOSEPH MURPHY joseph.murphy@hexion.com;mike.johnson@amrri.com T: (870)722-7305

HEXION - HOPE PLANT

185 N INDUSTRIAL DR

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)

F: (870)722-5678

HOPE, AR