

### **PROBLEM SUMMARY**



# WHITNEY ASSEMBLY 1634

Hydraulic System Fluid DUBOIS PRELUBE ISO 46 (140 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RE	SULTS				
Sample Status			ABNORMAL	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647	>2500	🔺 6565	<b>6</b> 178	546
Particles >6µm	ASTM D7647	>640	<u> </u>	<b>A</b> 787	110
Particles >14µm	ASTM D7647	>80	<u> </u>	35	9
Particles >21µm	ASTM D7647	>20	<u> </u>	9	3
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u> </u>	🔺 20/17/12	16/14/10

Customer Id: LARATT Sample No.: ST44428 Lab Number: 06029377 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

### HISTORICAL DIAGNOSIS



### 07 Dec 2022 Diag: Doug Bogart

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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### 24 Nov 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 09 Dec 2020 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# WHITNEY ASSEMBLY 1634

Hydraulic System Fluid DUBOIS PRELUBE ISO 46 (140 GAL)

### DIAGNOSIS

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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		Oct2015 Nov	2016 Nov2017 Jan2019	Jan2020 Dec2020 Nov2021 Dec20	22 Nov2023	
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		ST44428	ST44990	ST39923
Sample Date		Client Info		29 Nov 2023	07 Dec 2022	24 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	15	12	8
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	6	5	4
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		70	60	96
Phosphorus	ppm	ASTM D5185m		729	695	699
Zinc	ppm	ASTM D5185m		912	817	804
Sulfur	ppm	ASTM D5185m		2303	2411	1854
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	0
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	1	<1	1
Water	%	ASTM D6304	>0.05	0.003	0.010	0.007
ppm Water	ppm	ASTM D6304	>500	33	103.4	78.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>6565</b>	<b>6</b> 178	546
Particles >6µm		ASTM D7647	>640	<u> </u>	<b>▲</b> 787	110
Particles >14µm		ASTM D7647	>80	<b>3</b> 36	35	9
Particles >21µm		ASTM D7647	>20	<u> </u>	9	3
Particles >38µm		ASTM D7647	>4	5	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>20/18/16</b>	▲ 20/17/12	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/a	ASTM D8045		0.30	0.33	0.099

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Contact/Location: DAVE SIMCOCK - LARATT



## **OIL ANALYSIS REPORT**







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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		46.2	46.4	46.5
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		

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Contact/Location: DAVE SIMCOCK - LARATT