## West Molding 139 (S/N 65000105)

## Hydraulic System

AW HYDRAULIC OIL ISO 46 (645 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. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

| Sample Status |  |  | ABNORMAL | ABNORMAL | NORMAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Particles $>6 \mu \mathrm{~m}$ | ASTM D7647 | $>160$ | $\triangle 271$ | $\triangle 370$ | 66 |
| Particles $>14 \mu \mathrm{~m}$ | ASTM D7647 | $>10$ | $\triangle 42$ | $\triangle 36$ | 10 |
| Particles $>21 \mu \mathrm{~m}$ | ASTM D7647 | >3 | $\triangle 13$ | $\triangle 10$ | 3 |
| Oil Cleanliness | ISO 4406 (c) | >17/1 | - 17/15/13 | - 18/16/12 | 15/13/10 |

Customer Id: JOHHOL
Sample No.: RP0034636
Lab Number: 05899893
Test Package: IND 2


To manage this report scan the QR code

To discuss the diagnosis or test data:
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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 <br> We advise that you perform a filter service, and use off-line filtration to |
| :--- | :---: | :--- | :--- | :--- |
| Change Filter | --- | --- | $?$ | improve the cleanliness of the system fluid. |
| Resample | -- | --- | ? | Pe recommend an early resample to monitor this condition. |

## HISTORICAL DIAGNOSIS

03 Nov 2022 Diag: Don Baldridge
ISO


We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.


## 14 Apr 2022 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.
view report


26 Feb 2021 Diag: Jonathan Hester


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.


## West Molding 139 (S/N 65000105)

## Hydraulic System

## AW HYDRAULIC OIL ISO 46 (645 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. Please specify the brand type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.
$\triangle$ Contamination
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. 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.

| SAMPLE INFORMATION |  | method | limit/base | current | history 1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sample Number |  | Client Info |  | RP0034636 | RP0030212 | RP0021586 |
| Sample Date |  | Client Info |  | 17 May 2023 | 03 Nov 2022 | 14 Apr 2022 |
| 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 | 2 | 2 | 2 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m |  | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m |  | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >20 | 4 | 4 | 4 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | <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 | 5 | 0 | <1 | 2 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | <1 | <1 | $<1$ |
| Manganese | ppm | ASTM D5185m |  | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 25 | 4 | 5 | 5 |
| Calcium | ppm | ASTM D5185m | 200 | 64 | 57 | 64 |
| Phosphorus | ppm | ASTM D5185m | 300 | 382 | 350 | 378 |
| Zinc | ppm | ASTM D5185m | 370 | 464 | 399 | 425 |


| CONTAMINANTS |  | method | limit/base | current | history1 | history2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Silicon | ppm | ASTM D5185m | $>15$ | $\mathbf{< 1}$ | $<1$ | $<1$ |
| Sodium | ppm | ASTM D5185m |  | $\mathbf{1}$ | $<1$ | 1 |
| Potassium | ppm | ASTM D5185m | $>20$ | $\mathbf{< 1}$ | 0 | 0 |
| Water | $\%$ | ASTM D6304 | $>0.05$ | $\mathbf{0 . 0 0 8}$ | 0.010 | 0.003 |
| ppm Water | ppm | ASTM D6304 | $>500$ | $\mathbf{8 0 . 3}$ | 109.8 | 26.9 |


| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Particles $>4 \mu \mathrm{~m}$ | ASTM D7647 | >1300 | 759 | - 1451 | 192 |
| Particles $>6 \mu \mathrm{~m}$ | ASTM D7647 | >160 | $\triangle 271$ | $\triangle 370$ | 66 |
| Particles $>14 \mu \mathrm{~m}$ | ASTM D7647 | >10 | $\triangle 42$ | $\triangle 36$ | 10 |
| Particles $>21 \mu \mathrm{~m}$ | ASTM D7647 | $>3$ | $\triangle 13$ | $\triangle 10$ | 3 |
| Particles $>38 \mu \mathrm{~m}$ | ASTM D7647 | >3 | 1 | 1 | 0 |
| Particles $>71 \mu \mathrm{~m}$ | ASTM D7647 | $>3$ | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >17/14/10 | $\triangle 17 / 15 / 13$ | -18/16/12 | 15/13/10 |
| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
| Acid Number | ASTM D8045 | 0.57 | 0.40 | 0.44 | 0.35 |

## OIL ANALYSIS REPORT










# ANAB 

Laboratory

| Laboratory | : WearCheck USA - 501 Madison Ave., Cary, NC 27513 |  |  |
| :--- | :--- | :--- | :--- |
| Sample No. | $:$ RP0034636 | Received | $: 17$ Jul 2023 |
| Lab Number | $: 05899893$ | Diagnosed | $: 18$ Jul 2023 |
| Unique Number | $: 10561249$ | Diagnostician | $:$ Wes Davis |

Cerificate L2367 Test Package: IND 2
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)

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