

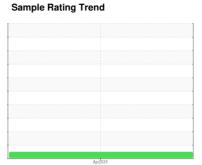
OIL ANALYSIS REPORT



MINING ME-117 CATERPILLAR 980M KRS00356

Rear Differential

SHELL Spirax S4 CX 30 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

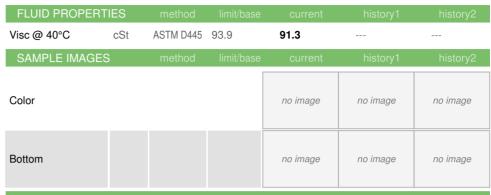
The condition of the oil is acceptable for the time in service.

| 0 (GAL) | | <u>-</u> | | Apr2024 | | |
|-----------------------------|--------|-------------|------------|-------------|----------|---------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0920008 | | |
| Sample Date | | Client Info | | 01 Apr 2024 | | |
| Aachine Age | hrs | Client Info | | 11592 | | |
| Dil Age | hrs | Client Info | | 500 | | |
| Dil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATIO | DΝ | method | limit/base | current | history1 | history2 |
| Vater | | WC Method | >.2 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >500 | 34 | | |
| Chromium | ppm | ASTM D5185m | >3 | 0 | | |
| lickel | ppm | ASTM D5185m | >3 | 0 | | |
| itanium | ppm | ASTM D5185m | >2 | 0 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | | |
| _ead | ppm | ASTM D5185m | >13 | <1 | | |
| Copper | ppm | ASTM D5185m | >103 | 7 | | |
| Fin | | ASTM D5185m | >5 | , <1 | | |
| | ppm | ASTM D5185m | >5 | 0 | | |
| /anadium | ppm | ASTM D5185m | | | | |
| Cadmium | ppm | | | 0 | | |
| ADDITIVES | | method | limit/base | | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 13 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Nolybdenum | ppm | ASTM D5185m | | 7 | | |
| /langanese | ppm | ASTM D5185m | | 0 | | |
| /lagnesium | ppm | ASTM D5185m | | 50 | | |
| Calcium | ppm | ASTM D5185m | | 3160 | | |
| Phosphorus | ppm | ASTM D5185m | | 1094 | | |
| inc | ppm | ASTM D5185m | | 1275 | | |
| Sulfur | ppm | ASTM D5185m | | 7465 | | |
| CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >100 | 7 | | |
| Sodium | ppm | ASTM D5185m | | 1 | | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| VISUAL | | method | limit/base | current | history1 | history2 |
| Vhite Metal | scalar | *Visual | NONE | NONE | | |
| 'ellow Metal | scalar | *Visual | NONE | NONE | | |
| recipitate | scalar | *Visual | NONE | NONE | | |
| ilt | scalar | *Visual | NONE | NONE | | |
| Debris | scalar | *Visual | NONE | NONE | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| ppearance | scalar | *Visual | NORML | NORML | | |
| Odor | scalar | *Visual | NORML | NORML | | |
| mulsified Water | scalar | *Visual | >.2 | NEG | | |
| ree Water | | *Visual | 7.L | NEG | | |
| ree vvater 7:49) Rev: 1 | scalar | visual | | NEG | | ·· Megan Mous |

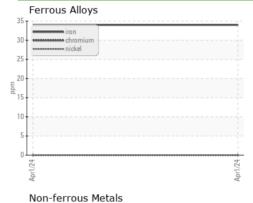


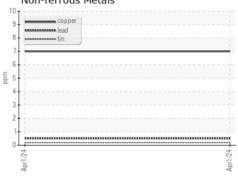
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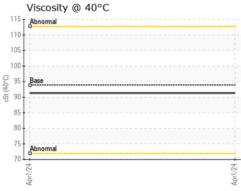




GRAPHS









Certificate 12367

Laboratory

Sample No. : WC0920008 Lab Number : 06140302

Unique Number : 10965110 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 Tested : 08 Apr 2024

Diagnosed

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 08 Apr 2024 - Wes Davis

US 54751 Contact: Jeremy Wagner jeremy.wagner@coviacorp.com T: (715)235-0942

COVIA - MENOMONIE - 852

N5628 580TH STREET

MENOMONIE, WI

* - 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)