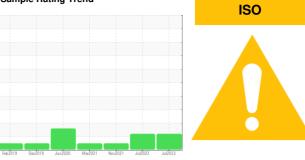


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

current

history2

Area METRO Machine Id METRO 20005 Component

Front Differential Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory elemental data.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Client Info WC0843183 WC0728428 Sample Date Client Info 13 Jul 2023 06 Jul 2022 Machine Age mls Client Info 444251 338372 Oil Age mls Client Info 0 0 Oil Age mls Client Info 0 0 Oil Changed Client Info N/A N/A Sample Status Imathod Imathod ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 Iron ppm ASTM D5185m >500 258 185 Chromium ppm ASTM D5185m >10 1 <1 Nickel ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 2 1	04 Nov 2021 270437 0 N/A NORMAL
Machine AgemlsClient Info444251338372Oil AgemlsClient Info00Oil ChangedClient InfoN/AN/ASample StatusImageImageABNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>500258185ChromiumppmASTM D5185m>1021NickelppmASTM D5185m>101<1	270437 0 N/A NORMAL 337 337 3 2 337 3 2 3 3 2 4 0 1 0 2
Oil AgemlsClient Info00Oil ChangedClient InfoN/AN/ASample StatusImageImageABNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>500258185ChromiumppmASTM D5185m>1021NickelppmASTM D5185m>101<1	0 N/A NORMAL history2 337 3 3 2 2 <1 0 0 2
Oil Changed Sample StatusClient InfoN/AN/ASample StatusClient InfoN/AABNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>500258185ChromiumppmASTM D5185m>1021NickelppmASTM D5185m>101<1TitaniumppmASTM D5185m>1000SilverppmASTM D5185m>2567LeadppmASTM D5185m>2500CopperppmASTM D5185m>10021	N/A NORMAL history2 337 3 2 2 <1 0 2 (1 0 2
Sample StatusImage: StatusABNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>500258185ChromiumppmASTM D5185m>1021NickelppmASTM D5185m>101<1	NORMAL history2 337 3 2 2 <1 0 2
Sample StatusImage: StatusABNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1IronppmASTM D5185m>500258185ChromiumppmASTM D5185m>1021NickelppmASTM D5185m>101<1	history2 337 3 2 <1 0 2
Iron ppm ASTM D5185m >500 258 185 Chromium ppm ASTM D5185m >10 2 1 Nickel ppm ASTM D5185m >10 1 <1 Titanium ppm ASTM D5185m >10 1 <1 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >25 10 1	337 3 2 <1 0 2
Iron ppm ASTM D5185m >500 258 185 Chromium ppm ASTM D5185m >10 2 1 Nickel ppm ASTM D5185m >10 1 <1	337 3 2 <1 0 2
Chromium ppm ASTM D5185m >10 2 1 Nickel ppm ASTM D5185m >10 1 <1	3 2 <1 0 2
Nickel ppm ASTM D5185m >10 1 <1 Titanium ppm ASTM D5185m O 0 0 Silver ppm ASTM D5185m O 0 0 Aluminum ppm ASTM D5185m 25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >25 10 1	2 <1 0 2
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >25 0 0	<1 0 2
Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >25 0 0	0 2
Aluminum ppm ASTM D5185m >25 6 7 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 2 1	2
Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 2 1	
Copper ppm ASTM D5185m >100 2 1	0
Tin ppm ASTM D5185m >10 0 0	1
	0
Antimony ppm ASTM D5185m >5	<1
Vanadium ppm ASTM D5185m <1 0	0
Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 85 52	70
Barium ppm ASTM D5185m 27 0	<1
Molybdenum ppm ASTM D5185m 0 0	0
Manganese ppm ASTM D5185m 3 2	7
Magnesium ppm ASTM D5185m 153 154	158
Calcium ppm ASTM D5185m <1 2	3
Phosphorus ppm ASTM D5185m 1602 1578	1814
Zinc ppm ASTM D5185m 34 2	8
Sulfur ppm ASTM D5185m 25056 25056	34573
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >75 75 58	49
Sodium ppm ASTM D5185m 9 6	8
Potassium ppm ASTM D5185m >20 2 1	6
Water % ASTM D6304 >.2 0.040 0.050	0.044
ppm Water ppm ASTM D6304 >2000 400.3 505.3	441.9
FLUID CLEANLINESS method limit/base current history1	history2
Particles >4µm ASTM D7647 >20000 ▲ 132328 ▲ 113642	
Particles >6μm ASTM D7647 >5000 Δ 21678 Δ 7492	
Particles >14µm ASTM D7647 >640 126 38	
Particles >21µm ASTM D7647 >160 14 7	
Particles >28μm ASTM D7647 >40 0 1	
Particles >71µm ASTM D747 >10 0 0	
Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 24/22/14 ▲ 24/20/12	
FLUID DEGRADATION method limit/base current history1	history2
Acid Number (AN) mg KOH/g ASTM D8045 0.82 0.71 :20:58) Rev: 2 Contact/Location: GIANNA CREDAR	1.112



OIL ANALYSIS REPORT

