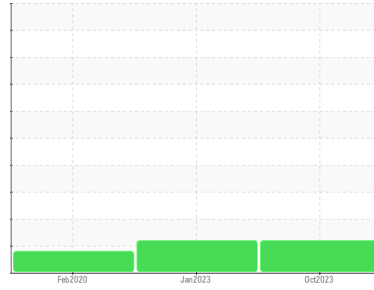


PROBLEM SUMMARY

Sample Rating Trend



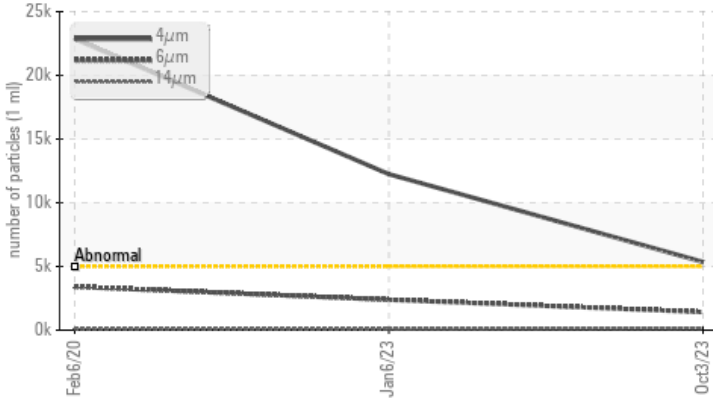
ISO



Machine Id
816
 Component
Hydraulic System
 Fluid
SHELL TELLUS S2 MX 46 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 5353	▲ 12245	▲ 22869
Particles >6µm	ASTM D7647	>1300	▲ 1419	▲ 2388	▲ 3411
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/14	▲ 21/18/14	▲ 22/19/14

Customer Id: AISCRO
 Sample No.: PCA0108019
 Lab Number: 05975710
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

06 Jan 2023 Diag: Don Baldrige

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. 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.

view report



06 Feb 2020 Diag: Doug Bogart

ISO



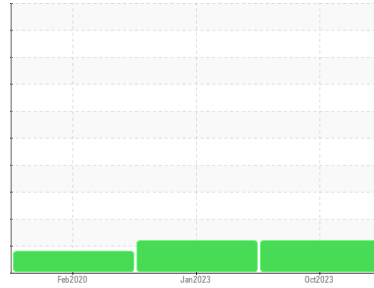
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





Machine Id
816
 Component
Hydraulic System
 Fluid
SHELL TELLUS S2 MX 46 (--- GAL)



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a moderate 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0108019	PCA0090065	PCA0015672
Sample Date	Client Info	03 Oct 2023	06 Jan 2023	06 Feb 2020
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	1
Chromium	ppm	ASTM D5185m >20	0	<1
Nickel	ppm	ASTM D5185m >20	0	<1
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	<1
Aluminum	ppm	ASTM D5185m >20	0	0
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >20	<1	9
Tin	ppm	ASTM D5185m >20	0	<1
Antimony	ppm	ASTM D5185m	---	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	<1
Barium	ppm	ASTM D5185m 0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	<1
Manganese	ppm	ASTM D5185m 0	<1	0
Magnesium	ppm	ASTM D5185m 70	<1	22
Calcium	ppm	ASTM D5185m 10	38	41
Phosphorus	ppm	ASTM D5185m 300	265	275
Zinc	ppm	ASTM D5185m 325	319	323
Sulfur	ppm	ASTM D5185m 665	665	796

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	0	1
Sodium	ppm	ASTM D5185m	<1	0
Potassium	ppm	ASTM D5185m >20	0	0

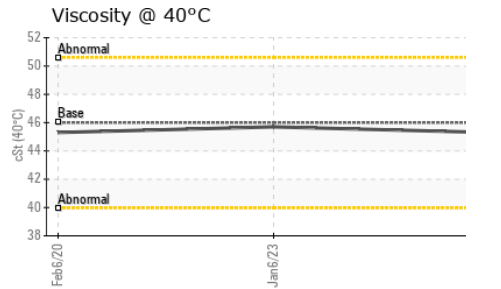
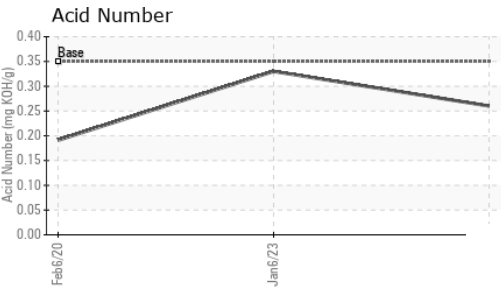
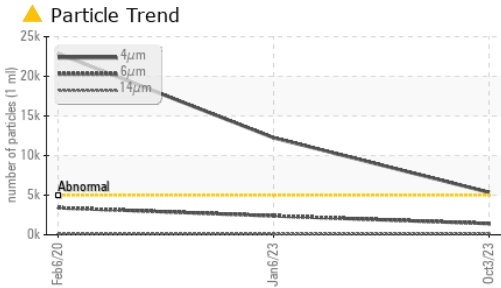
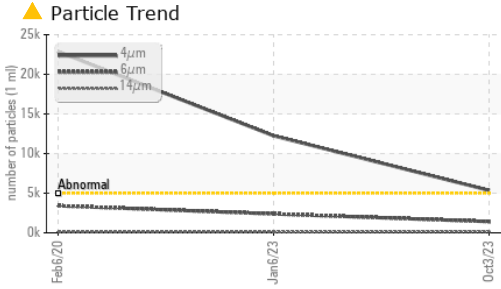
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 5353	▲ 12245	▲ 22869
Particles >6µm	ASTM D7647 >1300	▲ 1419	▲ 2388	▲ 3411
Particles >14µm	ASTM D7647 >160	135	83	96
Particles >21µm	ASTM D7647 >40	37	21	25
Particles >38µm	ASTM D7647 >10	2	1	2
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/18/14	▲ 21/18/14	▲ 22/19/14

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.35	0.26	0.33	0.191

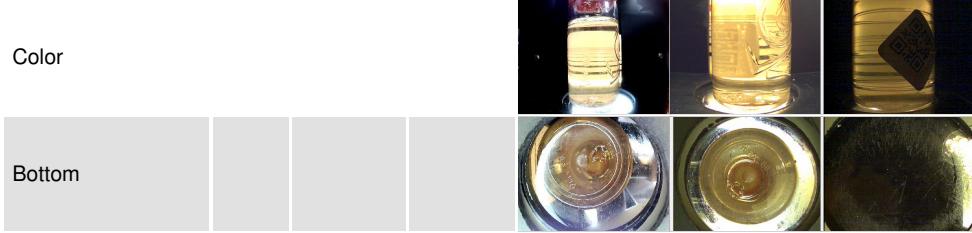
OIL ANALYSIS REPORT



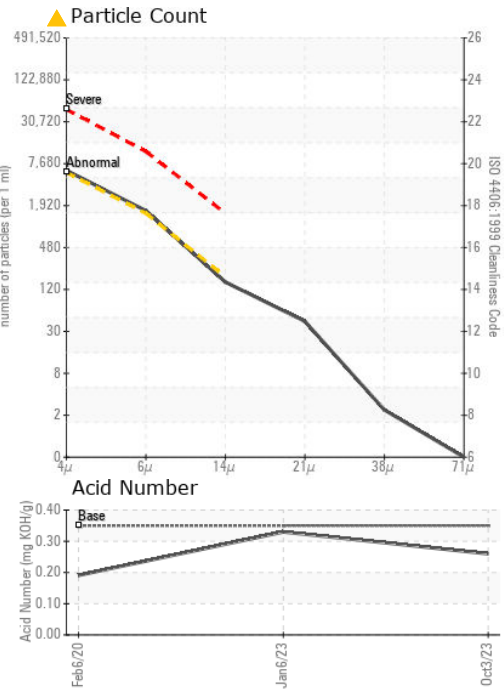
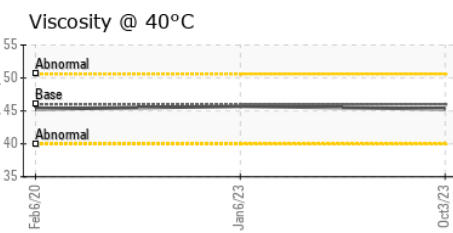
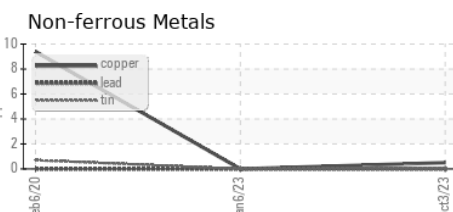
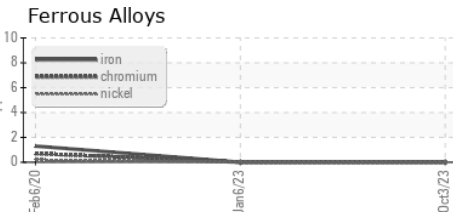
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	45.3	45.7	45.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108019 **Received** : 11 Oct 2023
Lab Number : 05975710 **Diagnosed** : 13 Oct 2023
Unique Number : 10687660 **Diagnostician** : Don Baldrige
Test Package : IND 2

AISIN CHEMICAL
 1004 INDUSTRIAL WAY
 CROTHERSVILLE, IN
 US 47229
 Contact: AL TANNER
 atanner@aisinchemin.com

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)

T:
F: