



PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id

SIM 4 HPU

Component

Hydraulic System

Fluid

SHELL TELLUS S2 MX 46 (350 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	ASTM D7647	ISO 4406 (c)	ATTENTION	---	---
Particles >4µm	>640	>16	▲ 757	---	---
Particles >6µm	>160	>4	▲ 285	---	---
Particles >14µm	>40	>1	▲ 47	---	---
Particles >21µm	>10	>0.5	▲ 17	---	---
Oil Cleanliness	>16/14/12	>16/14/12	▲ 17/15/13	---	---

PrtFilter

	no image	no image
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Customer Id: VALORA
Sample No.: PH0001021
Lab Number: 05855019
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1
(289)291-4641 x4641
Bill.Quesnel@wearcheck.com

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



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
SIM 4 HPU

Component
Hydraulic System

Fluid
SHELL TELLUS S2 MX 46 (350 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 particulates 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	PH0001021	---	---
Sample Date	Client Info	23 Jan 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	---
Chromium	ppm	ASTM D5185m >20	<1	---
Nickel	ppm	ASTM D5185m >20	<1	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m	0	---
Aluminum	ppm	ASTM D5185m >20	0	---
Lead	ppm	ASTM D5185m >20	2	---
Copper	ppm	ASTM D5185m >20	1	---
Tin	ppm	ASTM D5185m >20	<1	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	---
Barium	ppm	ASTM D5185m 0	0	---
Molybdenum	ppm	ASTM D5185m 0	<1	---
Manganese	ppm	ASTM D5185m 0	<1	---
Magnesium	ppm	ASTM D5185m 70	3	---
Calcium	ppm	ASTM D5185m 10	27	---
Phosphorus	ppm	ASTM D5185m 300	241	---
Zinc	ppm	ASTM D5185m 325	238	---
Sulfur	ppm	ASTM D5185m 665	2330	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	11	---
Sodium	ppm	ASTM D5185m	2	---
Potassium	ppm	ASTM D5185m >20	2	---

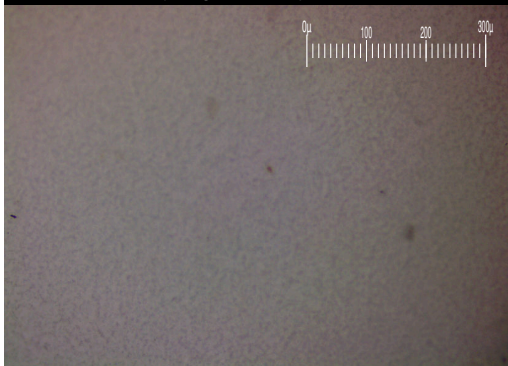
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	▲ 757	---
Particles >6µm	ASTM D7647	>160	▲ 285	---
Particles >14µm	ASTM D7647	>40	▲ 47	---
Particles >21µm	ASTM D7647	>10	▲ 17	---
Particles >38µm	ASTM D7647	>3	2	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>16/14/12	▲ 17/15/13	---

FLUID DEGRADATION

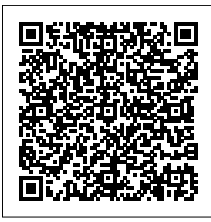
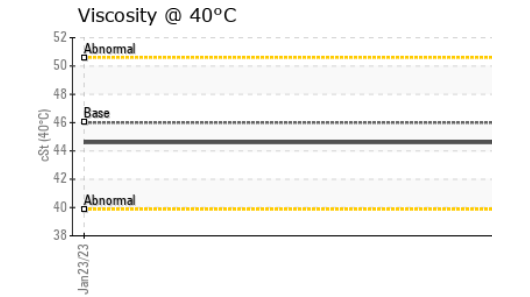
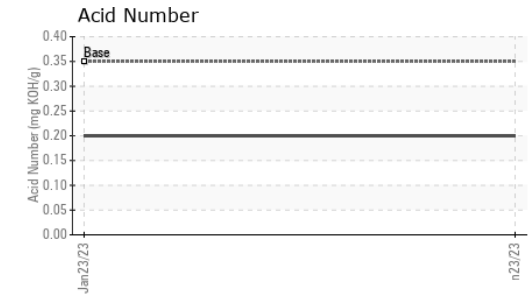
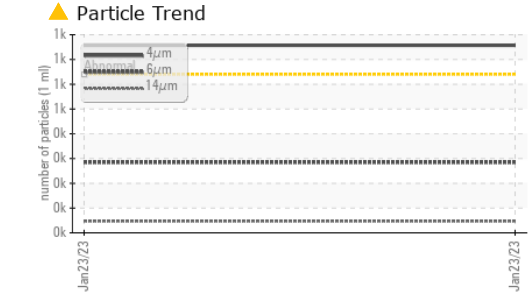
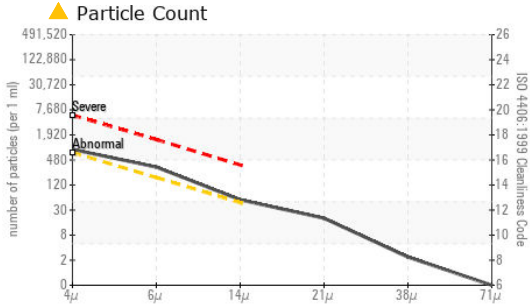
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.35	0.20	---

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001021 **Received** : 23 May 2023
Lab Number : 05855019 **Diagnosed** : 02 Jun 2023
Unique Number : 10484374 **Diagnostician** : Bill Quesnel
Test Package : PLANT (Additional Tests: KF, PrtFilter)

VALIANT INTEGRATED SERVICES
 744 TIMBERMILL LN
 ORANGE PARK, FL
 US 32068
 Contact: SCOTT CARPENTER

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)

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	44.6	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

GRAPHS

