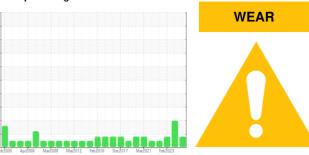


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# MACHINE 535 (S/N 718803)

Hydraulic System

SHELL TELLUS 46 (250 GAL)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### **Fluid Condition**

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

		њ2005 Арг20	006 Mar2008 Mar2012	Feb2016 Dec2017 Mar2021	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0933782	WC0847492	WC0761964
Sample Date		Client Info		28 May 2024	24 Aug 2023	16 Feb 2023
Machine Age	hrs	Client Info		55141	52330	0
Oil Age	hrs	Client Info		15000	7610	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<u>^</u> 21	<u>^</u> 22	<b>△</b> 23
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	11	0	0	4
Calcium	ppm	ASTM D5185m	35	102	114	104
Phosphorus	ppm	ASTM D5185m	266	323	341	291
Zinc	ppm	ASTM D5185m	276	400	390	346
Sulfur	ppm	ASTM D5185m	1847	5382	5329	4548
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	473		1813
Particles >6µm		ASTM D7647	>1300	162		418
Particles >14μm		ASTM D7647	>160	30		26
Particles >21µm		ASTM D7647	>40	13		6
Particles >38μm		ASTM D7647	>10	2		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	16/15/12		18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A : 1 N	ma 1/011/a	ACTM DODAE	0.00	0.24	0.00	0.00

Acid Number (AN)

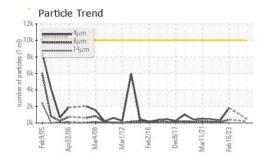
mg KOH/g ASTM D8045 0.36

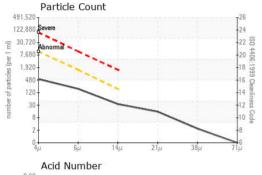
0.28

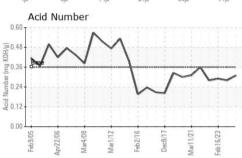
0.23

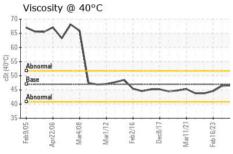


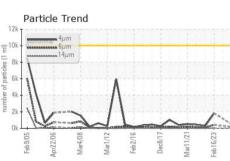
## **OIL ANALYSIS REPORT**

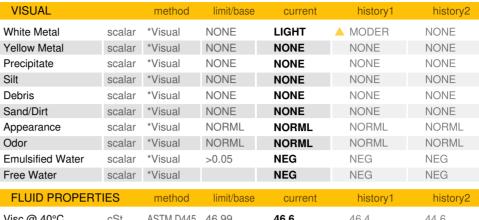












cSt Visc @ 40°C ASTM D445 46.99 46.6 46.4 44.6

SAMPLE IMAGES

method limit/base current

Particle Count

historv1

history2

Color

**Bottom** 

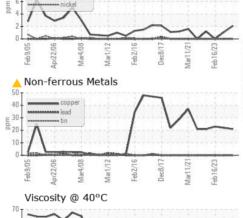


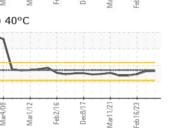
491 520

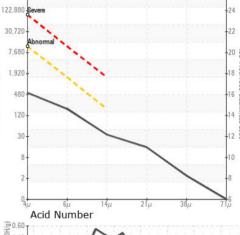


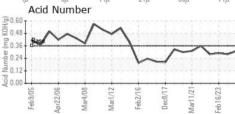
















Laboratory Sample No. Lab Number

: WC0933782 : 06200737 Unique Number : 11062860

60

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 **Tested** : 06 Jun 2024

Diagnosed

**ALLIANCE PRECISION PLASTICS** 

: 07 Jun 2024 - Don Baldridge

1220 LEE RD ROCHESTER, NY US 14606 Contact: RON ORT rort@allianceppc.com

Test Package : IND 2 Certificate 12367 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)

Report Id: AMPROC [WUSCAR] 06200737 (Generated: 06/07/2024 18:33:12) Rev: 1

Contact/Location: RON ORT - AMPROC

F: (716)425-7251

T: