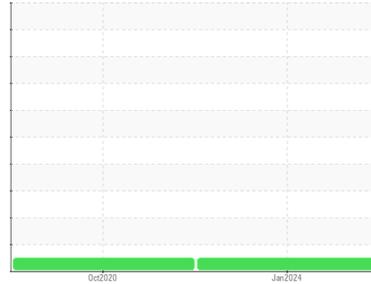


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
24A
Machine Id
[24A] 24A ACHILLES
Component
Heat Transfer Fluid
Fluid
MOBIL MOBILTHERM 603 (500 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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		PCA0076338	PCA0024759	---
Sample Date	Client Info		11 Jan 2024	22 Oct 2020	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	13410	0	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		11	---	---
Iron	ppm	ASTM D5185m >200	0	<1	---
Chromium	ppm	ASTM D5185m >21	0	0	---
Nickel	ppm	ASTM D5185m >21	0	0	---
Titanium	ppm	ASTM D5185m >21	0	0	---
Silver	ppm	ASTM D5185m >21	0	<1	---
Aluminum	ppm	ASTM D5185m >21	0	0	---
Lead	ppm	ASTM D5185m >21	0	0	---
Copper	ppm	ASTM D5185m >21	<1	0	---
Tin	ppm	ASTM D5185m >21	0	<1	---
Antimony	ppm	ASTM D5185m >21	---	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	2	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m	0	0	---
Calcium	ppm	ASTM D5185m	1	0	---
Phosphorus	ppm	ASTM D5185m	0	5	---
Zinc	ppm	ASTM D5185m	0	0	---
Sulfur	ppm	ASTM D5185m	863	1364	---

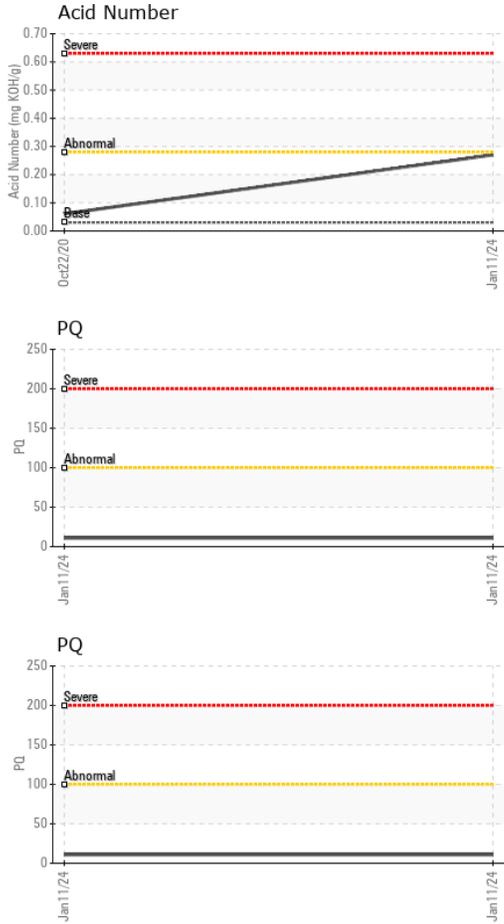
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	1	---
Sodium	ppm	ASTM D5185m >21	1	0	---
Potassium	ppm	ASTM D5185m >20	0	0	---
Water	%	ASTM D6304 >0.0601	NEG	NEG	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.03	0.27	0.061	---

OIL ANALYSIS REPORT



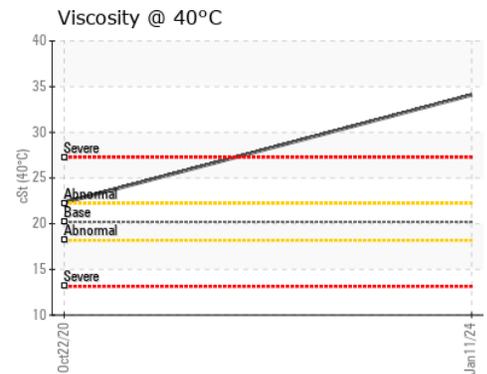
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.0601	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	20.2	34.1	22.3	---

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. : PCA0076338 **Recieved** : 24 Jan 2024
Lab Number : **06070086** **Diagnosed** : 26 Jan 2024
Unique Number : 10846763 **Diagnostician** : Jonathan Hester
Test Package : PLANT

ACHILLES USA INC
 1407 80TH STREET SW
 EVERETT, WA
 US 98203
 Contact: TONY DEHLER
 tdehler@achillesusa.com
 T: (425)438-4681
 F:

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)