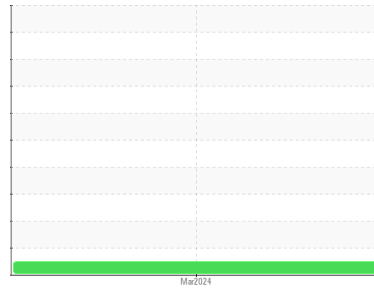


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NOT GIVEN PCA0123459
 Component
Hydraulic System
 Fluid
TOC AW 46 ZF (--- GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear
 All component wear rates are normal.

Contamination
 The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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	PCA0123459	---	---
Sample Date	Client Info	24 Mar 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	---

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		0	---
Manganese	ppm	ASTM D5185m		0	---
Magnesium	ppm	ASTM D5185m		0	---
Calcium	ppm	ASTM D5185m		0	---
Phosphorus	ppm	ASTM D5185m		448	---
Zinc	ppm	ASTM D5185m		4	---
Sulfur	ppm	ASTM D5185m		2331	---

CONTAMINANTS

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

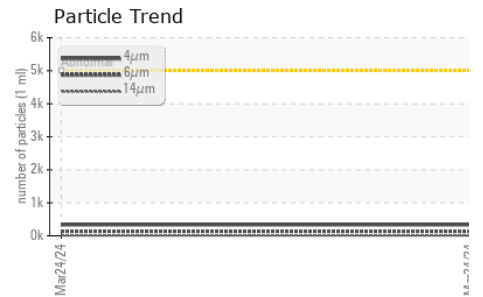
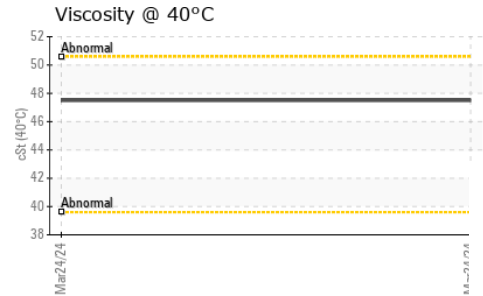
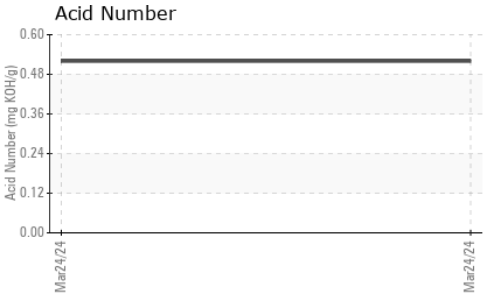
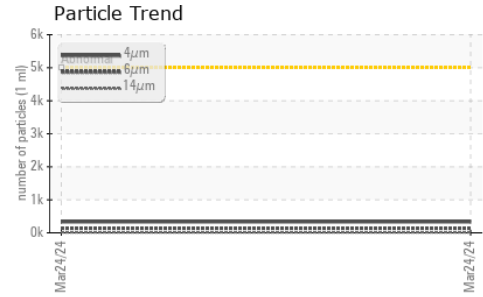
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	335	---
Particles >6µm	ASTM D7647	>1300	136	---
Particles >14µm	ASTM D7647	>160	13	---
Particles >21µm	ASTM D7647	>40	2	---
Particles >38µm	ASTM D7647	>10	0	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/14/11	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	---

OIL ANALYSIS REPORT



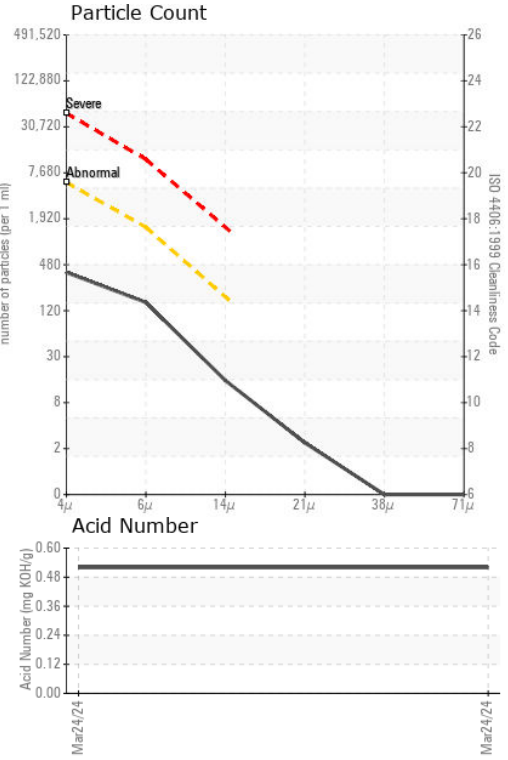
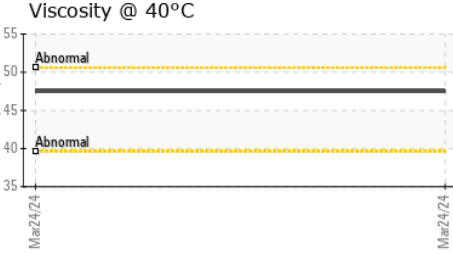
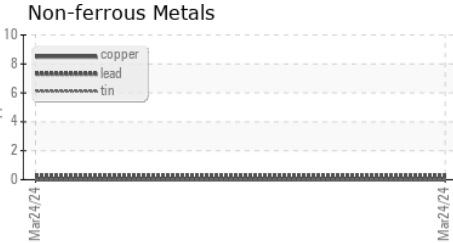
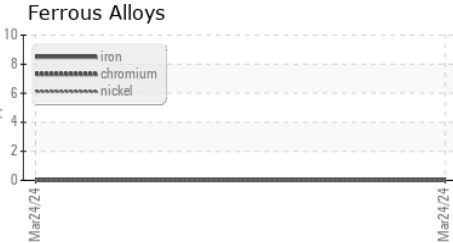
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123459 **Received** : 14 Jun 2024
Lab Number : 06210047 **Tested** : 18 Jun 2024
Unique Number : 11082911 **Diagnosed** : 18 Jun 2024 - Wes Davis
Test Package : PLANT

THOMAS OIL CO
 3070 RJ PARKWAY
 FRANKLIN, IN
 US 46131
 Contact: BILL THOMAS
 bill.thomas@tocinc.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)