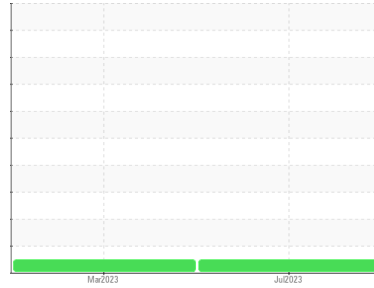




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[186276-N2STV4W]
 Machine Id
ME-2027 - RIM CELL 2
 Component
Hydraulic System
 Fluid
ESSO NUTO H ISO 68 (20 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. 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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PH05899883	PH05808973	---
Sample Date	Client Info	12 Jul 2023	08 Mar 2023	---
Machine Age	hrs Client Info	0	0	---
Oil Age	hrs Client Info	14336	13656	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	0	0	---
Chromium ppm ASTM D5185m	>20	0	0	---
Nickel ppm ASTM D5185m	>20	0	0	---
Titanium ppm ASTM D5185m		0	0	---
Silver ppm ASTM D5185m		0	0	---
Aluminum ppm ASTM D5185m	>20	0	0	---
Lead ppm ASTM D5185m	>20	0	0	---
Copper ppm ASTM D5185m	>20	<1	0	---
Tin ppm ASTM D5185m	>20	0	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	0	---
Barium ppm ASTM D5185m	0	0	0	---
Molybdenum ppm ASTM D5185m	0	0	0	---
Manganese ppm ASTM D5185m		0	<1	---
Magnesium ppm ASTM D5185m	5	0	4	---
Calcium ppm ASTM D5185m	50	52	50	---
Phosphorus ppm ASTM D5185m	330	376	604	---
Zinc ppm ASTM D5185m	420	482	473	---
Sulfur ppm ASTM D5185m	3100	4305	3490	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	1	2	---
Sodium ppm ASTM D5185m		0	0	---
Potassium ppm ASTM D5185m	>20	0	<1	---

FLUID CLEANLINESS

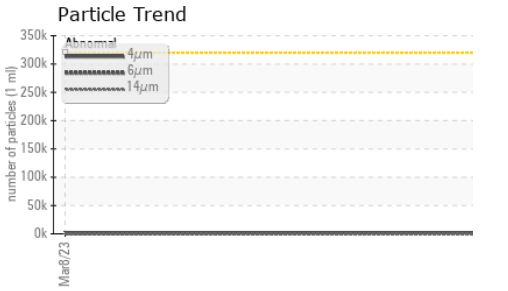
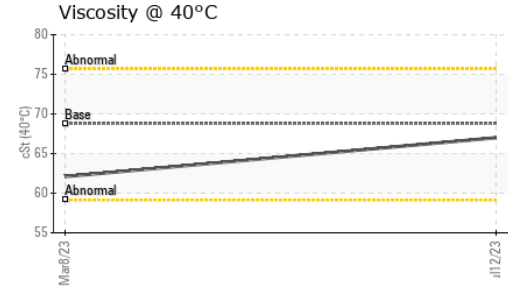
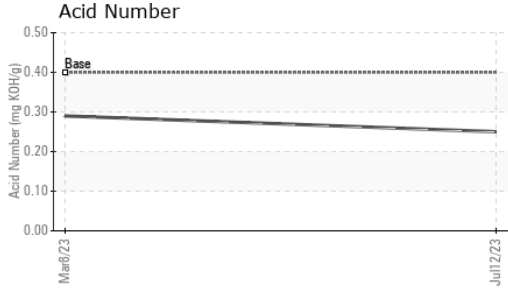
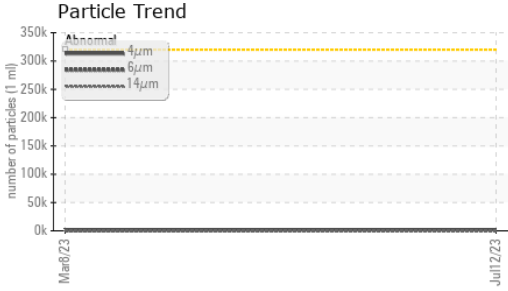
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>320000	1813	925	---
Particles >6µm ASTM D7647	>160000	357	244	---
Particles >14µm ASTM D7647	>40000	12	29	---
Particles >21µm ASTM D7647	>10000	2	9	---
Particles >38µm ASTM D7647	>2500	0	0	---
Particles >71µm ASTM D7647	>640	0	0	---
Oil Cleanliness ISO 4406 (c)	>25/24/22	18/16/11	17/15/12	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	.40	0.25	0.29	---



OIL ANALYSIS REPORT



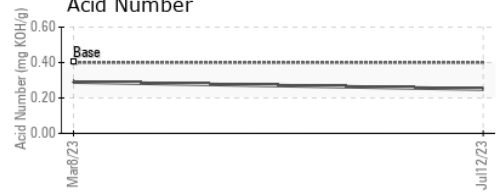
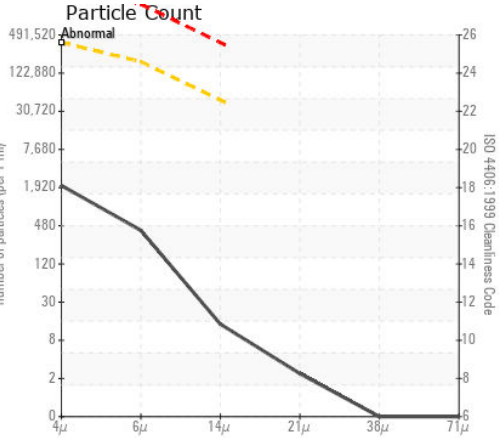
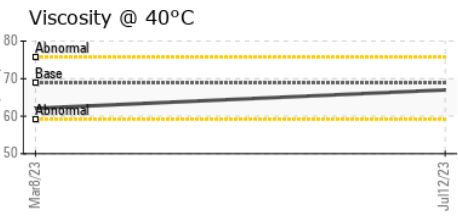
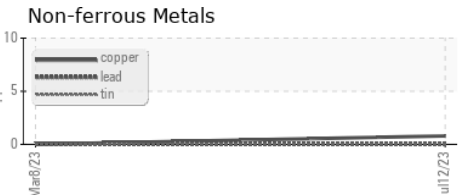
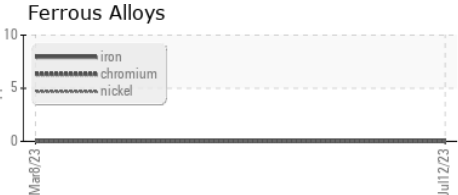
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	68.8	67.0	62.1

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH05899883 **Received** : 17 Jul 2023
Lab Number : 05899883 **Diagnosed** : 18 Jul 2023
Unique Number : 10561239 **Diagnostician** : Angela Borella
Test Package : PLANT (Additional Tests: PrtFilterPic)

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)

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