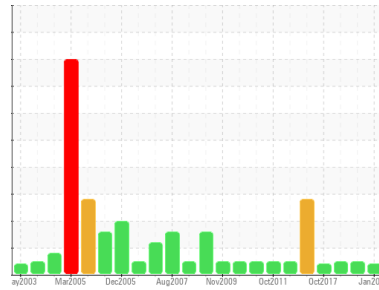


OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
MACHINE 17 (S/N 76268)

Component
Hydraulic System

Fluid
ESSO NUTO H ISO 46 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0038665	RP0007497	RP99308
Sample Date	Client Info	15 Jan 2024	18 Jan 2021	09 Sep 2018
Machine Age	yrs Client Info	0	0	0
Oil Age	yrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	3	6	6
Chromium	ppm ASTM D5185m >20	0	<1	<1
Nickel	ppm ASTM D5185m >20	0	<1	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >20	0	<1	<1
Lead	ppm ASTM D5185m >20	0	1	<1
Copper	ppm ASTM D5185m >20	3	4	3
Tin	ppm ASTM D5185m >20	0	0	<1
Antimony	ppm ASTM D5185m	---	0	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	0	0	<1
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 5	0	1	0
Calcium	ppm ASTM D5185m 50	<1	30	47
Phosphorus	ppm ASTM D5185m 330	277	322	321
Zinc	ppm ASTM D5185m 410	160	324	356

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<1	<1	<1
Sodium	ppm ASTM D5185m	<1	1	<1
Potassium	ppm ASTM D5185m >20	0	10	1
Water	% ASTM D6304 >0.05	0.010	0.019	0.036
ppm Water	ppm ASTM D6304 >500	102	198.2	360

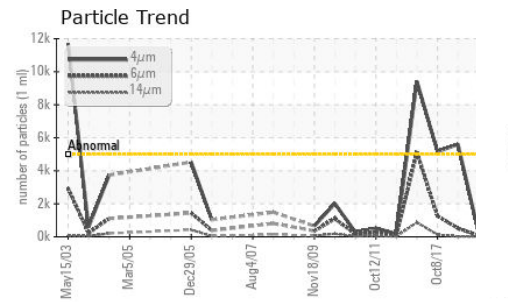
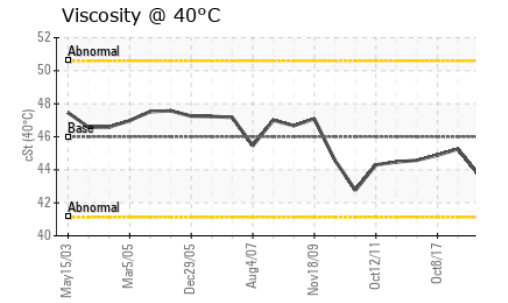
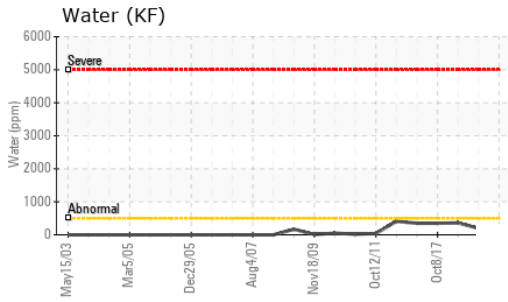
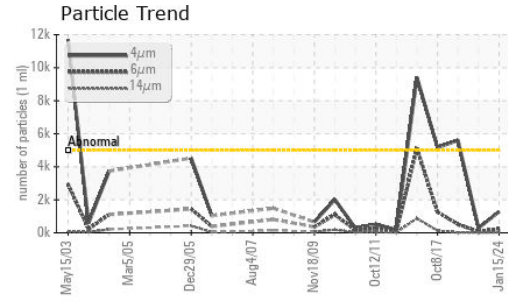
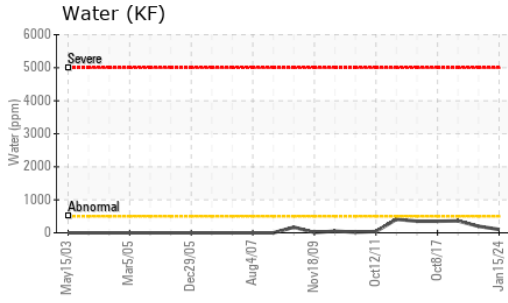
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1283	286	5602
Particles >6µm	ASTM D7647 >1300	246	71	519
Particles >14µm	ASTM D7647 >160	24	10	19
Particles >21µm	ASTM D7647 >40	8	3	5
Particles >38µm	ASTM D7647 >10	1	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	17/15/12	15/13/10	20/16/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.45	0.36	0.412	0.582

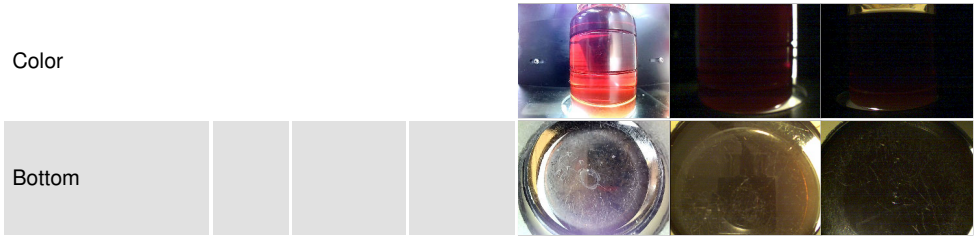
OIL ANALYSIS REPORT



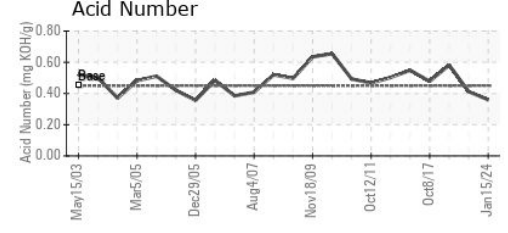
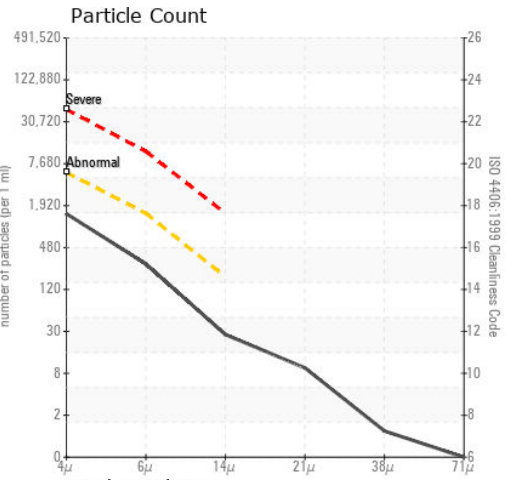
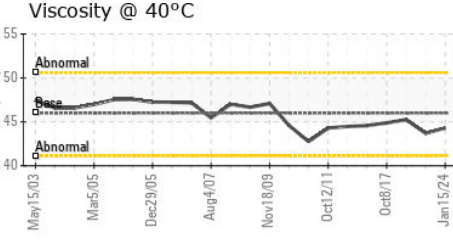
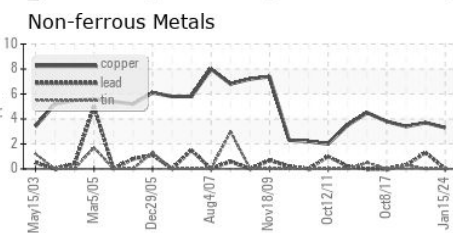
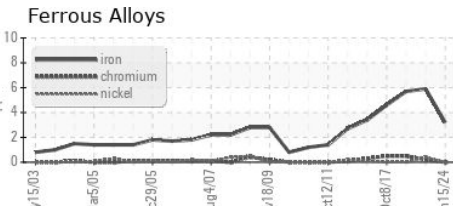
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.3	43.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038665 **Recieved** : 16 Jan 2024
Lab Number : 06061065 **Diagnosed** : 17 Jan 2024
Unique Number : 10832447 **Diagnostician** : Don Baldrige
Test Package : IND 2

YANFENG - ROMULUS
 9800 INKSTER RD
 ROMULUS, MI
 US 48174
 Contact: AARON BLIESNER
 aaron.bliesner@yanfeng.com
 T:
 F: (734)946-0237

Certificate L2367
 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)