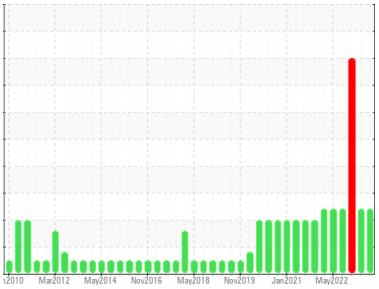
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
455.XX414
Component
Hydraulic System
Fluid
MOBIL NYVAC FR 200 FLUID (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The pH level of this fluid is within the acceptable limits. The condition of the oil is acceptable for the time in service. pH 9.0.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0008454**	RP0000828	RP0000830
Sample Date		Client Info		**20 Mar 2024**	08 May 2023	18 Apr 2023
Machine Age	days	Client Info		**0**	0	0
Oil Age	days	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**<1**	<1	▲ 540
Chromium	ppm	ASTM D5185m	>20	**0**	<1	2
Nickel	ppm	ASTM D5185m	>20	**0**	<1	2
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	2	0
Aluminum	ppm	ASTM D5185m	>20	**1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>20	**2**	<1	<1
Tin	ppm	ASTM D5185m	>20	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	2	2

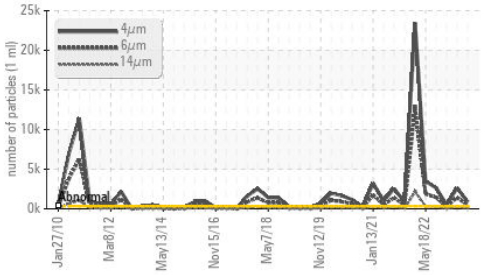
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	4	26
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**0**	<1	3
Magnesium	ppm	ASTM D5185m		**4**	4	3
Calcium	ppm	ASTM D5185m		**12**	4	11
Phosphorus	ppm	ASTM D5185m		**19**	13	18
Zinc	ppm	ASTM D5185m		**36**	23	69

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	4
Sodium	ppm	ASTM D5185m		**3**	1	42
Potassium	ppm	ASTM D5185m	>20	**1**	0	4
Water	%	ASTM D6304	>55	**44.5**	43.7	42.6
ppm Water	ppm	ASTM D6304	>55000	**445000**	437000	426000

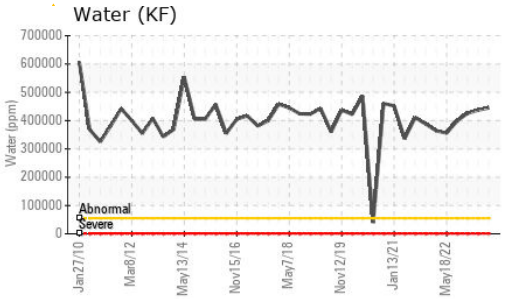
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320	▲ **887**	▲ 2636	504
Particles >6µm		ASTM D7647	>80	▲ **483**	▲ 1436	▲ 275
Particles >14µm		ASTM D7647	>20	▲ **82**	▲ 244	▲ 47
Particles >21µm		ASTM D7647	>4	▲ **28**	▲ 82	▲ 16
Particles >38µm		ASTM D7647	>3	▲ **4**	▲ 13	▲ 2
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>15/13/11	▲ **17/16/14**	▲ 19/18/15	▲ 16/15/13

OIL ANALYSIS REPORT

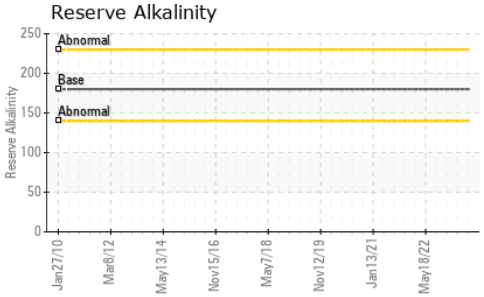
Particle Trend



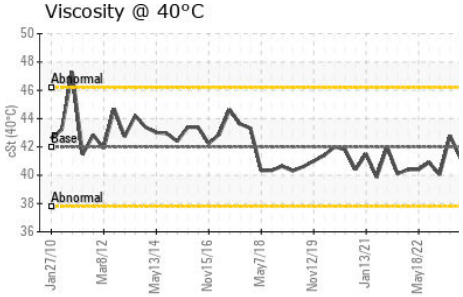
Water (KF)



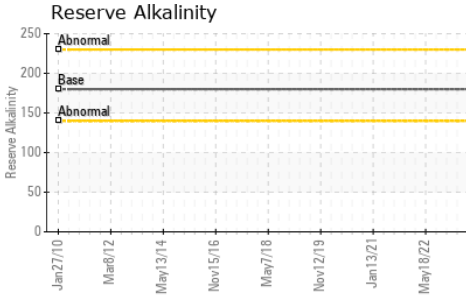
Reserve Alkalinity



Viscosity @ 40°C

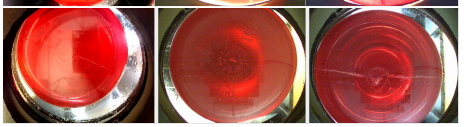


Reserve Alkalinity



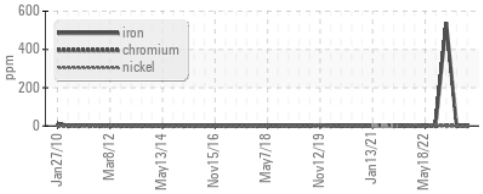
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>55	**0.2%**	0.2%	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287		**9.00**	8.00	9.00
Visc @ 40°C	cSt	ASTM D445	42	**41.2**	42.8	40.02

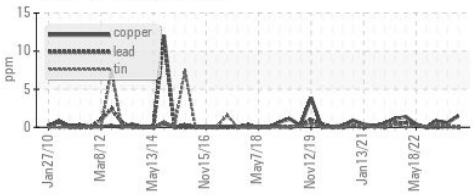
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

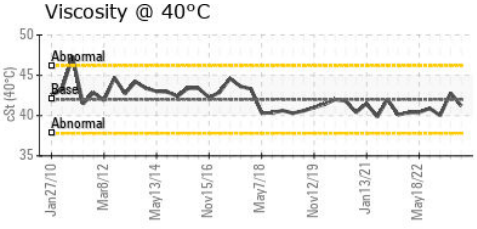
Ferrous Alloys



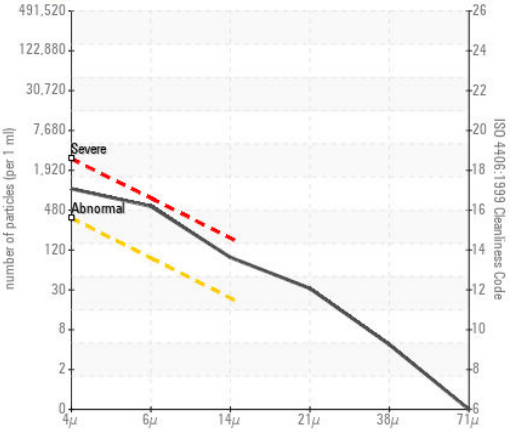
Non-ferrous Metals



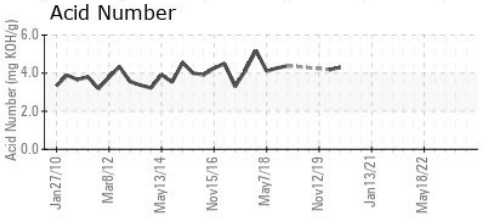
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0008454
Lab Number : 06130688
Unique Number : 10950153
Test Package : IND 2 (Additional Tests: pH, ReserveAlk)

Received : 27 Mar 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 2024 - Jonathan Hester

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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