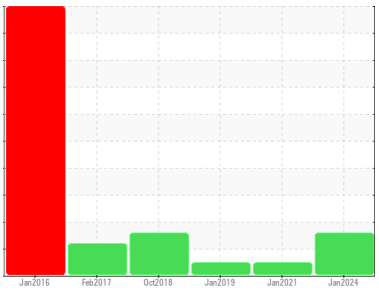
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
SW
Machine Id
SW SCRUBBER
Component
Pump
Fluid
SHELL OMALA 150 (2 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. 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
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0884844**	WC0533034	WCI2347223
Sample Date		Client Info		**04 Jan 2024**	14 Jan 2021	18 Jan 2019
Machine Age	yrs	Client Info		**0**	1	0
Oil Age	yrs	Client Info		**1**	0	1
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ATTENTION**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**3**	28	35
Chromium	ppm	ASTM D5185m	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	0
Titanium	ppm	ASTM D5185m	>3	**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**1**	0	0
Aluminum	ppm	ASTM D5185m	>7	**2**	0	<1
Lead	ppm	ASTM D5185m	>12	**6**	2	6
Copper	ppm	ASTM D5185m	>30	**2**	2	4
Tin	ppm	ASTM D5185m	>9	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6.2	**0**	1	2
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**<1**	<1	0
Calcium	ppm	ASTM D5185m	0.0	**65**	15	11
Phosphorus	ppm	ASTM D5185m	512	**325**	294	264
Zinc	ppm	ASTM D5185m	3.8	**509**	7	40
Sulfur	ppm	ASTM D5185m	8167	**1178**	8629	10178

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	**1**	2	1
Sodium	ppm	ASTM D5185m		**2**	4	10
Potassium	ppm	ASTM D5185m	>20	**2**	<1	0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.43**	0.396	0.638

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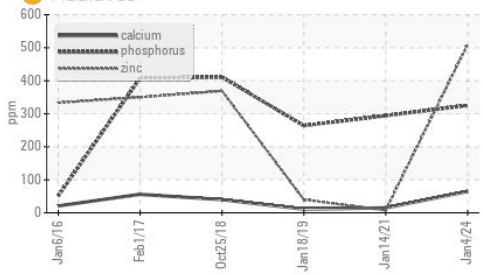
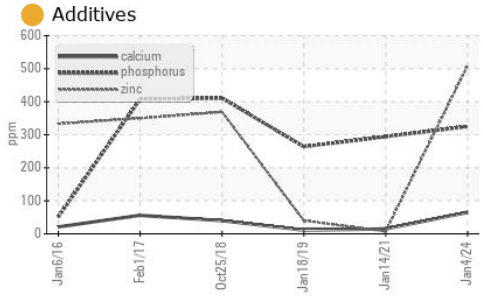
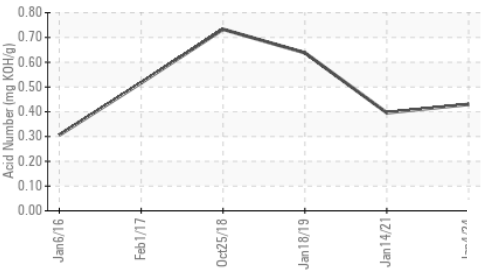
Additives



Additives

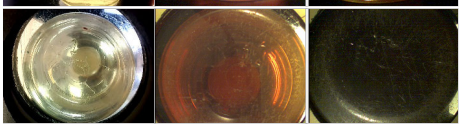


Acid Number



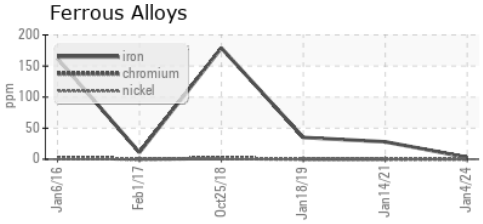
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	**67.0**	148	153.6

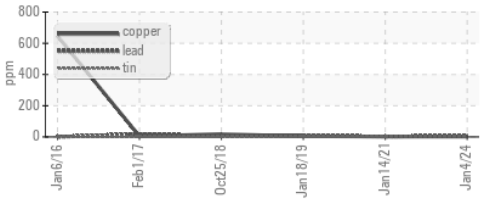
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

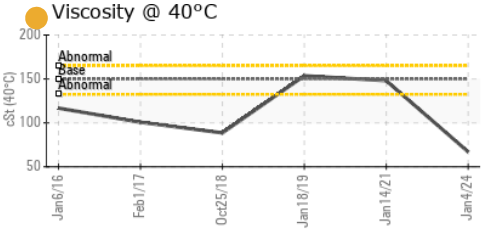
Ferrous Alloys



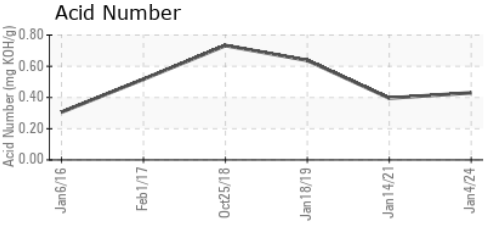
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0884844
Lab Number : 06184501
Unique Number : 11035827
Test Package : IND 2

Received : 20 May 2024
Tested : 21 May 2024
Diagnosed : 22 May 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)

SOLVAY SPARTANBURG
399 SIMS CHAPEL RD
SPARTANBURG, SC
US 29306
Contact: GREG BLACK
gregory.black@syensqo.com
T: (864)594-3270
F: (864)573-6972