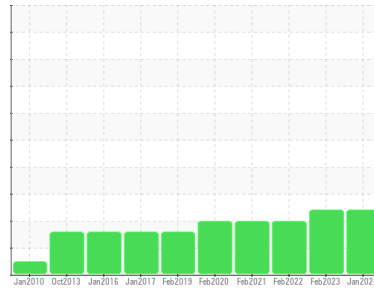




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
MAPLEN PRESS M-1
 Component
Hydraulic System
 Fluid
SAFETY CLEAN AW EX 46 (65 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 a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

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		WC0885362	WC0691904	WC0559892
Sample Date	Client Info		24 Jan 2024	28 Feb 2023	24 Feb 2022
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	2	0	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	4	4	4
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m		---	---	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	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	4	1
Calcium	ppm	ASTM D5185m		61	74	72
Phosphorus	ppm	ASTM D5185m		325	331	357
Zinc	ppm	ASTM D5185m		439	412	437
Sulfur	ppm	ASTM D5185m		1206	1064	1083

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	▲ 17	▲ 19	▲ 19
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0

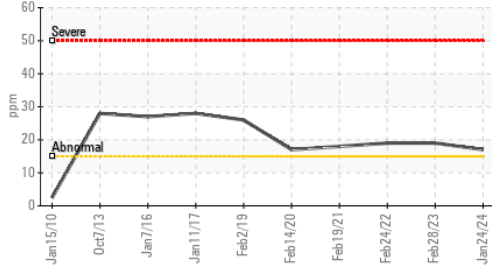
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		18873	12292	9245
Particles >6µm	ASTM D7647	>1300	▲ 2237	▲ 2841	▲ 1522
Particles >14µm	ASTM D7647	>160	91	125	73
Particles >21µm	ASTM D7647	>40	23	27	20
Particles >38µm	ASTM D7647	>10	1	1	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/14	▲ 21/18/14	▲ 21/19/14	▲ 20/18/13

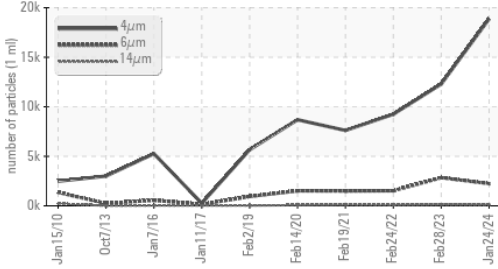


OIL ANALYSIS REPORT

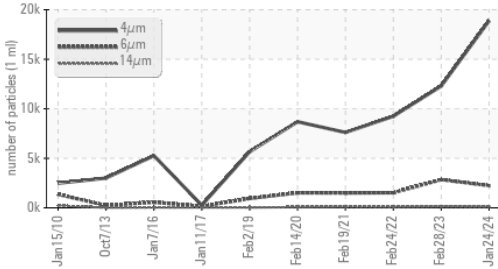
▲ Silicon (ppm)



▲ Particle Trend



▲ Particle Trend



FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN) mg KOH/g ASTM D8045 **0.33** 0.33 0.20

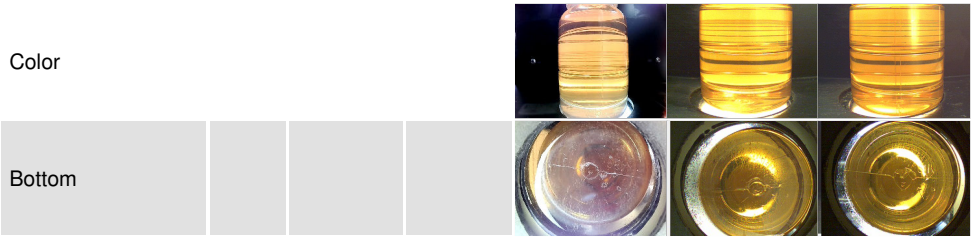
VISUAL method limit/base current history1 history2

White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	LIGHT	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

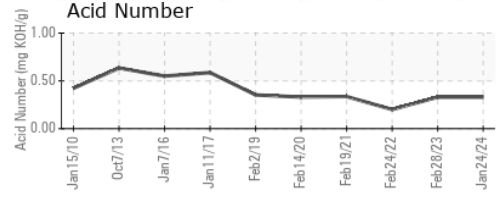
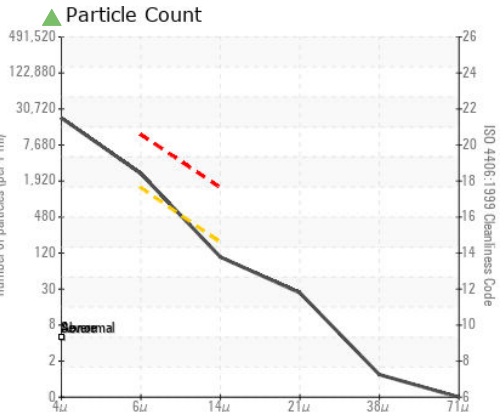
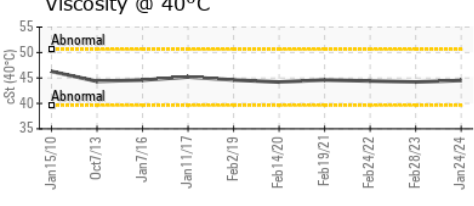
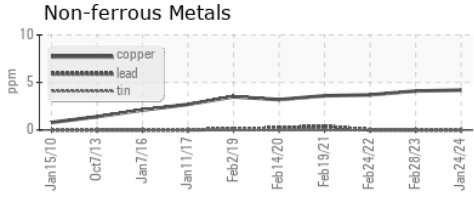
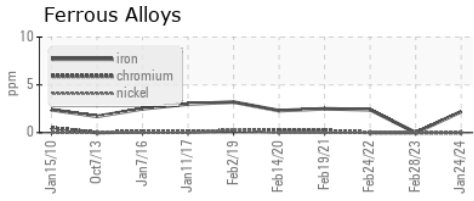
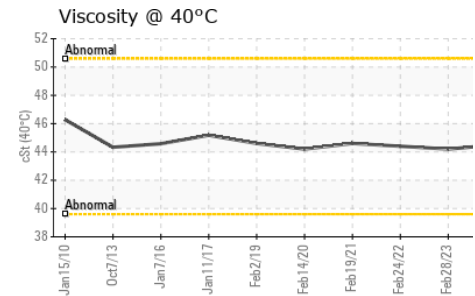
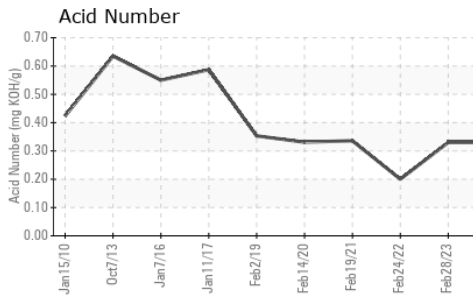
FLUID PROPERTIES method limit/base current history1 history2

Visc @ 40°C cSt ASTM D445 **44.5** 44.2 44.4

SAMPLE IMAGES method limit/base current history1 history2



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885362 **Received** : 30 Jan 2024
Lab Number : 06073835 **Diagnosed** : 31 Jan 2024
Unique Number : 10855926 **Diagnostician** : Don Baldrige
Test Package : IND 2

ROBINSON RUBBER
 4600 QUEBEC AVE. NORTH
 MINNEAPOLIS, MN
 US 55428
 Contact: DENNIS YOUNG
 dyoung@robinsonrubber.com
 T: (763)535-6737
 F: (763)535-0828

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)