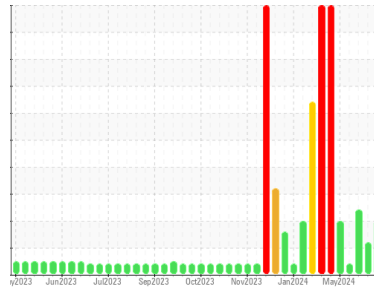




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

5

Machine Id

5-3-230-D Pump Station for Atox Roller Lube

Component

Reservoir Bearing Lube

Fluid

MOBIL SHC 639 (1000 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0912457	WC0873673	WC0925323
Sample Date	Client Info		17 Jun 2024	10 Jun 2024	03 Jun 2024
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	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	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	<1	<1
Chromium	ppm	ASTM D5185(m)	>5	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0
Titanium	ppm	ASTM D5185(m)		0	0
Silver	ppm	ASTM D5185(m)		0	0
Aluminum	ppm	ASTM D5185(m)	>4	<1	0
Lead	ppm	ASTM D5185(m)	>30	0	0
Copper	ppm	ASTM D5185(m)	>17	<1	0
Tin	ppm	ASTM D5185(m)	>10	0	0
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0.2	<1	<1
Barium	ppm	ASTM D5185(m)	0.0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	0	0
Magnesium	ppm	ASTM D5185(m)	0.6	<1	0
Calcium	ppm	ASTM D5185(m)	0.0	<1	0
Phosphorus	ppm	ASTM D5185(m)	691	371	373
Zinc	ppm	ASTM D5185(m)	2.0	<1	<1
Sulfur	ppm	ASTM D5185(m)	18	120	237
Lithium	ppm	ASTM D5185(m)		<1	<1

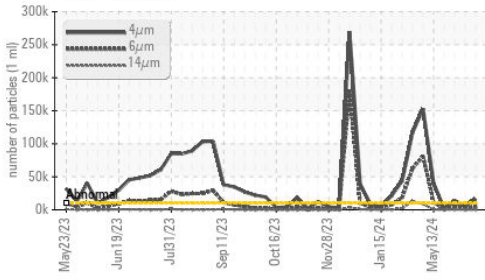
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12	11
Sodium	ppm	ASTM D5185(m)		0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0

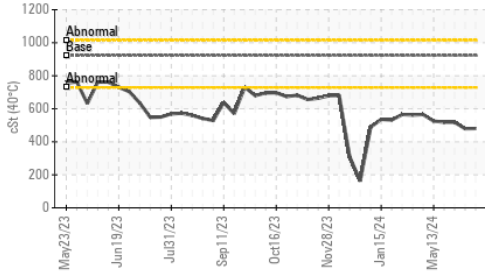
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	● 16415	4870	● 14185
Particles >6µm	ASTM D7647	>2500	▲ 5252	2018	▲ 5989
Particles >14µm	ASTM D7647	>160	● 239	● 210	▲ 556
Particles >21µm	ASTM D7647	>40	52	51	▲ 97
Particles >38µm	ASTM D7647	>10	2	3	3
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 21/20/15	● 19/18/15	▲ 21/20/16

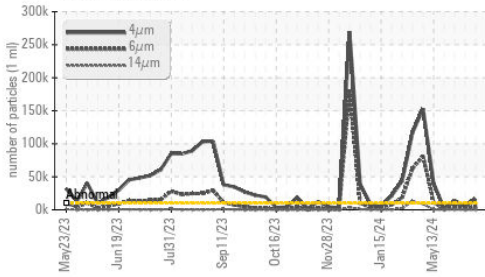
Particle Trend



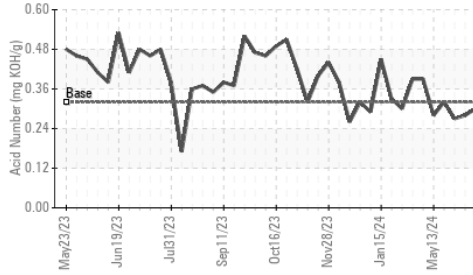
Viscosity @ 40°C



Particle Trend



Acid Number

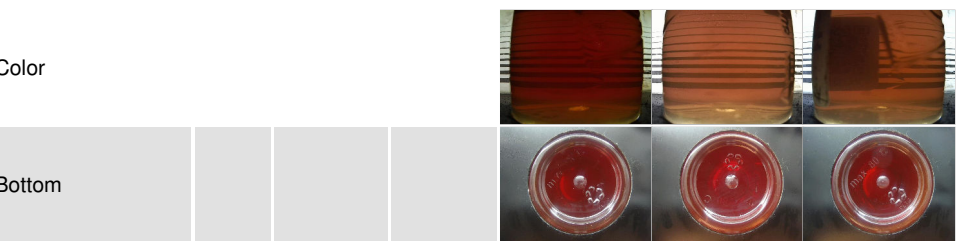


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.32	0.30	0.28	0.27

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	VLITE
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*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

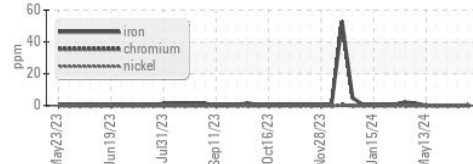
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	923	480	479	518

SAMPLE IMAGES

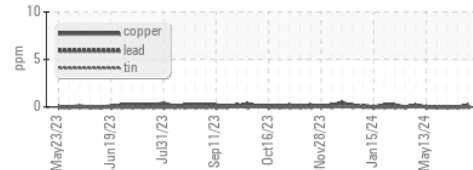


GRAPHS

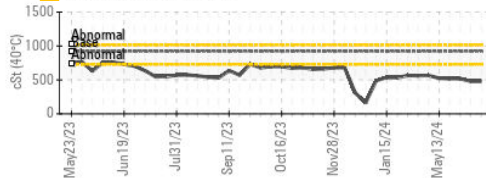
Ferrous Alloys



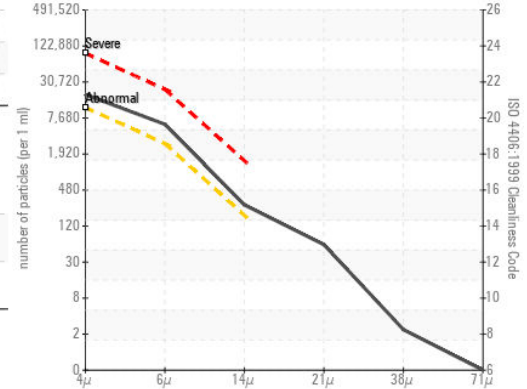
Non-ferrous Metals



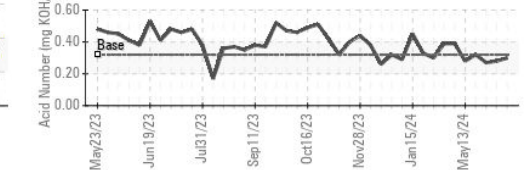
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0912457 **Received** : 21 Jun 2024
Lab Number : **02643487** **Tested** : 24 Jun 2024
Unique Number : 5801026 **Diagnosed** : 24 Jun 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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