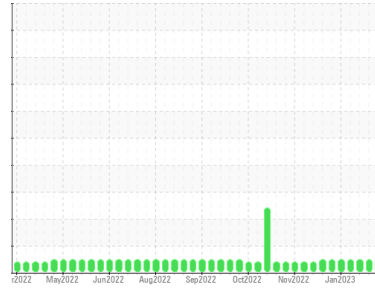




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



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

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is 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	WC0774188	WC0774189	WC0774187
Sample Date	Client Info	31 Jan 2023	23 Jan 2023	13 Jan 2023
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		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>120	2	<1	0
Chromium ppm ASTM D5185(m)	>5	0	0	0
Nickel ppm ASTM D5185(m)	>20	<1	<1	0
Titanium ppm ASTM D5185(m)		0	0	0
Silver ppm ASTM D5185(m)		0	0	0
Aluminum ppm ASTM D5185(m)	>4	<1	0	0
Lead ppm ASTM D5185(m)	>30	0	0	0
Copper ppm ASTM D5185(m)	>17	0	<1	0
Tin ppm ASTM D5185(m)	>10	0	0	0
Antimony ppm ASTM D5185(m)		<1	<1	<1
Vanadium ppm ASTM D5185(m)		0	0	0
Beryllium ppm ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m)		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0.2	<1	0	<1
Barium ppm ASTM D5185(m)	0.0	0	0	0
Molybdenum ppm ASTM D5185(m)	0.0	0	0	0
Manganese ppm ASTM D5185(m)	0.0	0	0	0
Magnesium ppm ASTM D5185(m)	0.6	<1	0	0
Calcium ppm ASTM D5185(m)	0.0	1	<1	0
Phosphorus ppm ASTM D5185(m)	691	387	261	251
Zinc ppm ASTM D5185(m)	2.0	2	<1	<1
Sulfur ppm ASTM D5185(m)	18	212	587	499
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	16	2	2
Sodium ppm ASTM D5185(m)		<1	0	<1
Potassium ppm ASTM D5185(m)	>20	0	0	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		196274	10516	8255
Particles >6µm ASTM D7647	>320000	100531	2573	3492
Particles >14µm ASTM D7647	>160000	12005	196	446
Particles >21µm ASTM D7647	>40000	3384	70	132
Particles >38µm ASTM D7647	>10000	98	2	3
Particles >71µm ASTM D7647	>2500	4	0	0
Oil Cleanliness ISO 4406 (c)	>25/24	24/21	19/15	19/16

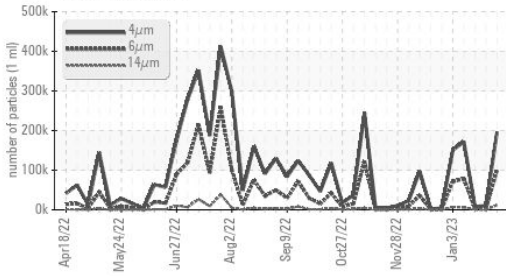
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.32	0.62	1.07	1.10

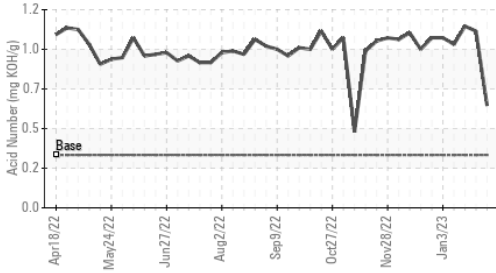


OIL ANALYSIS REPORT

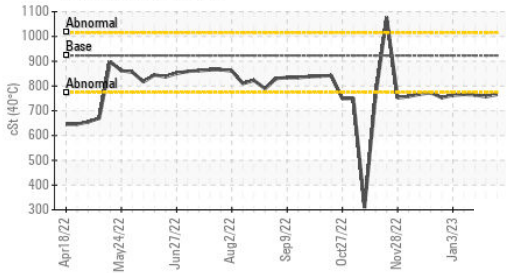
Particle Trend



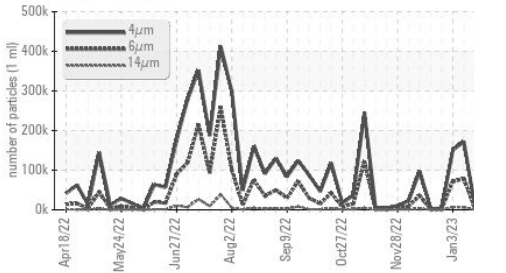
Acid Number



Viscosity @ 40°C



Particle Trend

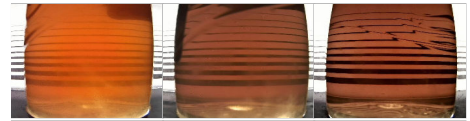


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	923	766	757

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

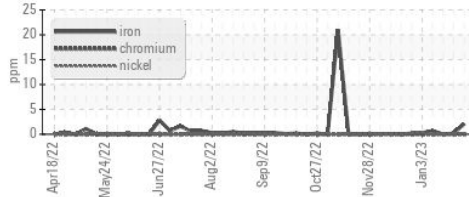


Bottom

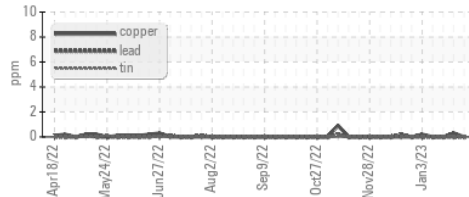


GRAPHS

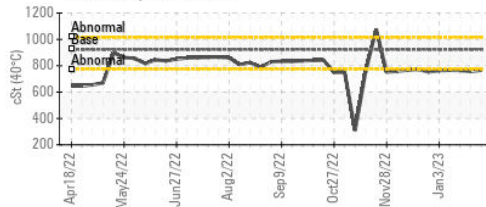
Ferrous Alloys



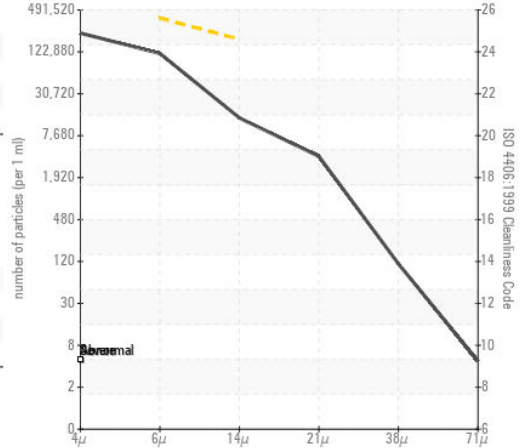
Non-ferrous Metals



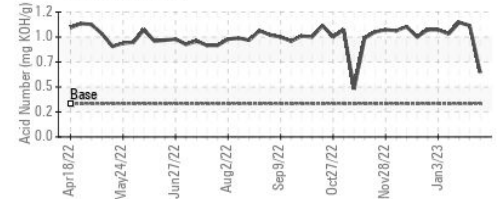
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0774188 **Received** : 01 Feb 2023
Lab Number : 02537031 **Diagnosed** : 02 Feb 2023
Unique Number : 5526031 **Diagnostician** : 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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