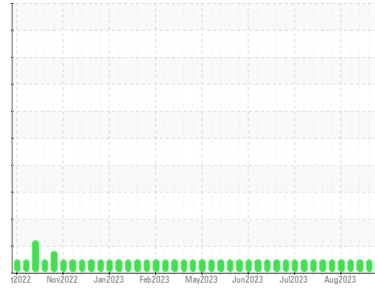




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area

5

Machine Id

5-3-241 Pump Station for Atox GBOX Lube

Component

Gearbox

Fluid

MOBIL MOBILGEAR 600 XP 320 (4400 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		WC0851476	WC0851478	WC0842677
Sample Date	Client Info		02 Oct 2023	25 Sep 2023	18 Sep 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)	>200	38	37	38
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	13	13	13
Lead	ppm	ASTM D5185(m)	>100	<1	<1	0
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
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)	57	2	2	2
Barium	ppm	ASTM D5185(m)	0.0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	2.0	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0.0	6	6	6
Calcium	ppm	ASTM D5185(m)	42	177	169	177
Phosphorus	ppm	ASTM D5185(m)	399	261	266	291
Zinc	ppm	ASTM D5185(m)	13	18	18	19
Sulfur	ppm	ASTM D5185(m)	13649	8838	8809	9000
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	38	35	37
Sodium	ppm	ASTM D5185(m)		1	1	<1
Potassium	ppm	ASTM D5185(m)	>20	5	5	4

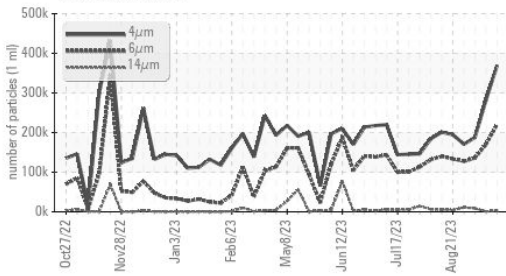
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		369320	282221	187813
Particles >6µm	ASTM D7647	>320000	220550	170150	136115
Particles >14µm	ASTM D7647	>160000	2399	1067	8668
Particles >21µm	ASTM D7647	>40000	75	10	353
Particles >38µm	ASTM D7647	>10000	2	0	6
Particles >71µm	ASTM D7647	>2500	1	0	1
Oil Cleanliness	ISO 4406 (c)	>--/25/24	26/25/18	25/25/17	25/24/20

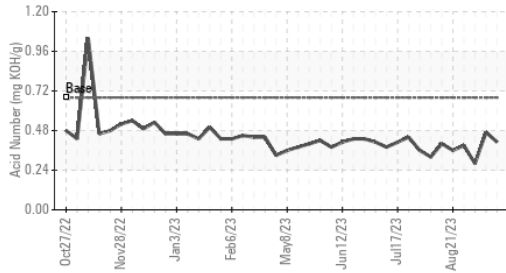
FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	0.41	0.47	0.28

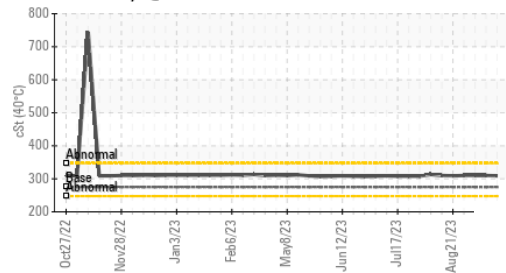
Particle Trend



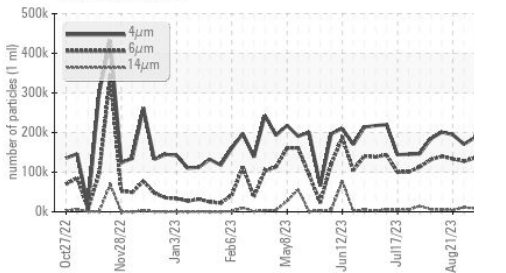
Acid Number



Viscosity @ 40°C



Particle Trend

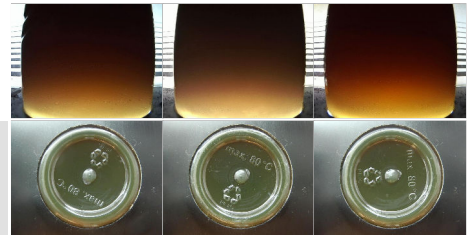


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	275	309	310

SAMPLE IMAGES	method	limit/base	current	history1	history2
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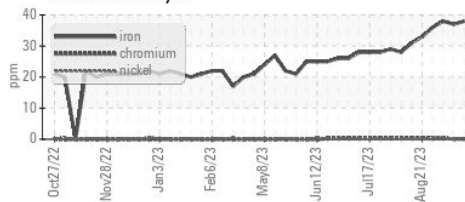
Color



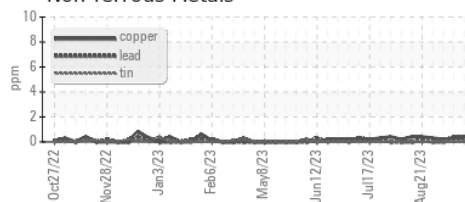
Bottom

GRAPHS

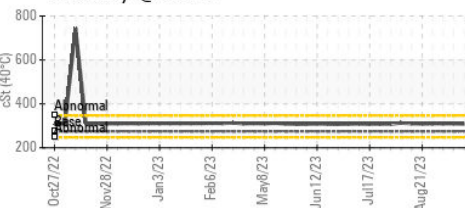
Ferrous Alloys



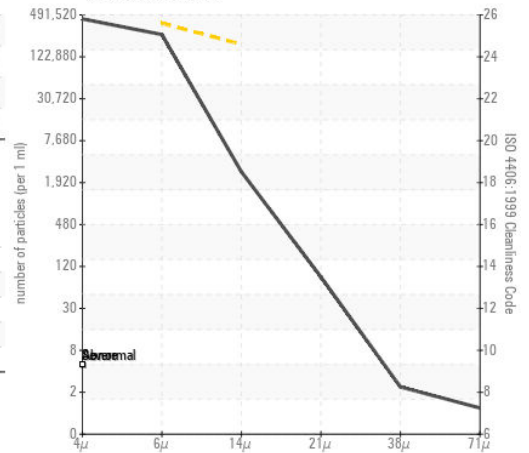
Non-ferrous Metals



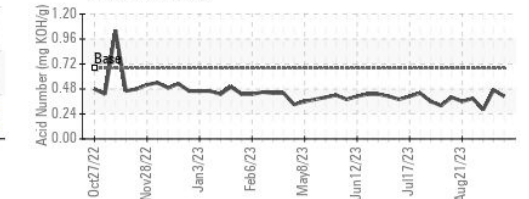
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0851476 Received : 12 Oct 2023
 Lab Number : 02588744 Diagnosed : 13 Oct 2023
 Unique Number : 5657810 Diagnostician : Wes Davis
 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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