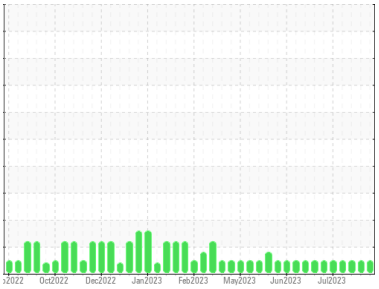
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
3
Machine Id
3-101-MG Primary
Component
Crusher
Fluid
MOBIL MOBILGEAR 600 XP 320 (2900 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0818216**	WC0842783	WC0842651
Sample Date		Client Info		**15 Aug 2023**	08 Aug 2023	01 Aug 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	**62**	58	55
Chromium	ppm	ASTM D5185(m)	>15	**1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**2**	2	2
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>50	**38**	36	33
Lead	ppm	ASTM D5185(m)	>100	**13**	13	12
Copper	ppm	ASTM D5185(m)	>200	**49**	48	46
Tin	ppm	ASTM D5185(m)	>15	**5**	5	5
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	**9**	9	9
Barium	ppm	ASTM D5185(m)	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	2.0	**0**	0	0
Manganese	ppm	ASTM D5185(m)	0.0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0.0	**19**	17	16
Calcium	ppm	ASTM D5185(m)	42	**375**	356	328
Phosphorus	ppm	ASTM D5185(m)	399	**311**	315	316
Zinc	ppm	ASTM D5185(m)	13	**4**	4	3
Sulfur	ppm	ASTM D5185(m)	13649	**10074**	10163	10110
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

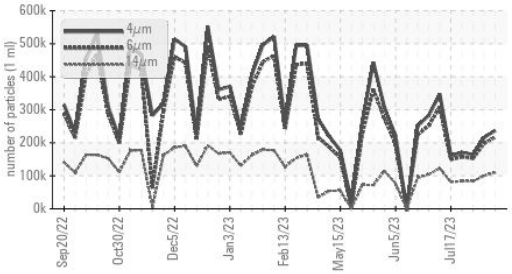
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>100	**109**	101	96
Sodium	ppm	ASTM D5185(m)		**2**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**16**	15	14

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**236772**	215743	164239
Particles >6µm		ASTM D7647	>320000	**216971**	197641	152074
Particles >14µm		ASTM D7647	>160000	**109910**	100313	83043
Particles >21µm		ASTM D7647	>40000	**41745**	38465	36468
Particles >38µm		ASTM D7647	>10000	**25**	24	35
Particles >71µm		ASTM D7647	>2500	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>25/24	**25/24**	25/24	24/24

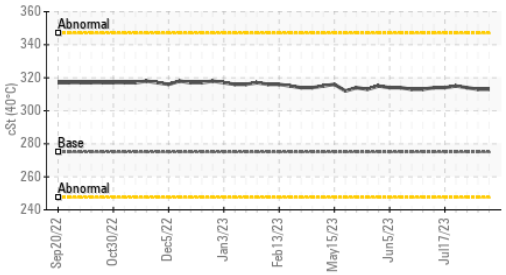
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	**0.29**	0.28	0.50

OIL ANALYSIS REPORT

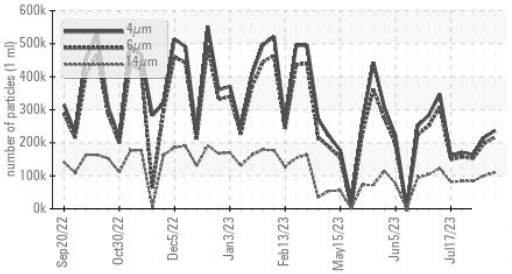
Particle Trend



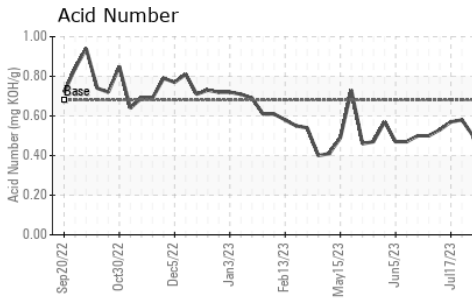
Viscosity @ 40°C



Particle Trend



Acid Number



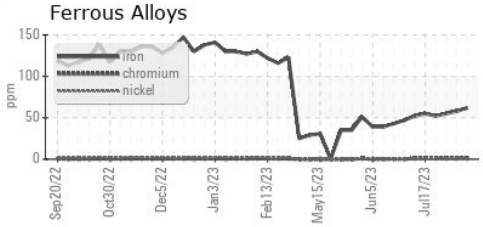
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**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)	275	**313**	313	314

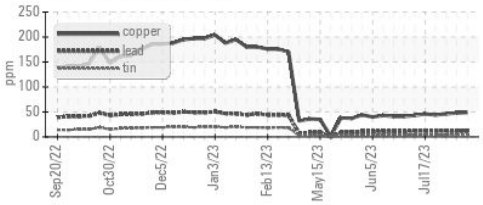
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

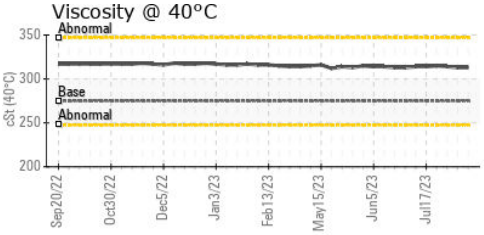
Ferrous Alloys



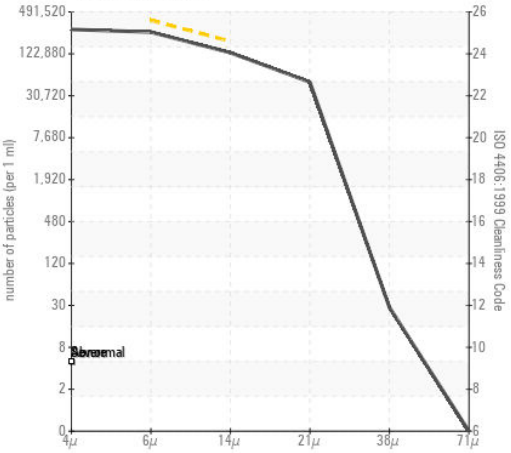
Non-ferrous Metals



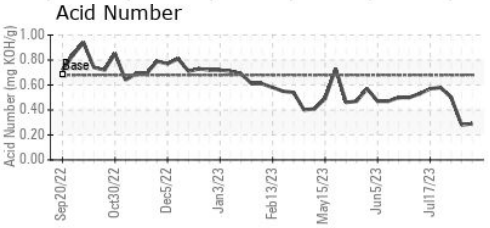
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0818216 **Received** : 17 Aug 2023
Lab Number : 02576543 **Diagnosed** : 21 Aug 2023
Unique Number : 5629603 **Diagnostician** : Kevin Marson
Test Package : IND 2

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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