



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area

1 [2534809]

Machine Id

01-0130-020-000-Tripper Cart #2 (1M28)

Component

1 Gearbox

Fluid

MOBIL MOBILGEAR SHC 220 (2 LTR)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as MOBIL MOBILGEAR SHC 220, however, a fluid match indicates that this fluid is ISO 100 Gear Oil. Please confirm the oil type and grade on your next sample.

WEAR

Iron ppm levels are severe. PQ levels are abnormal. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

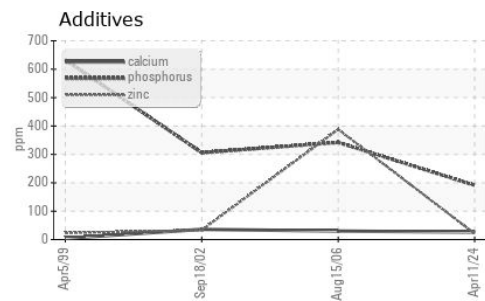
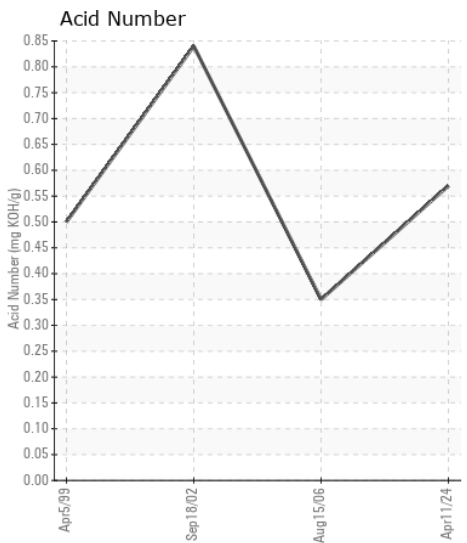
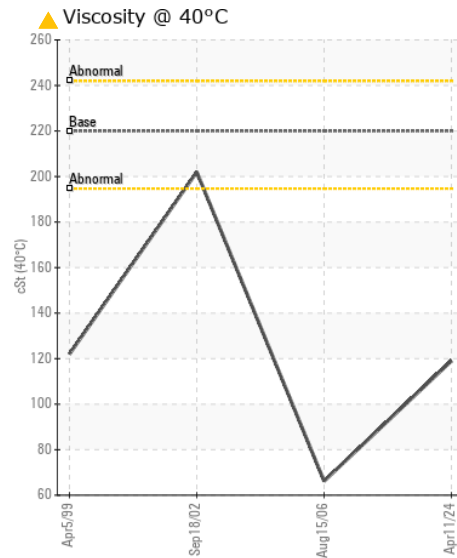
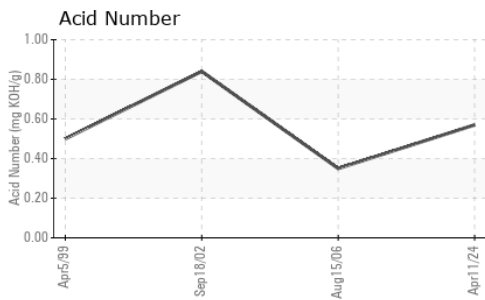
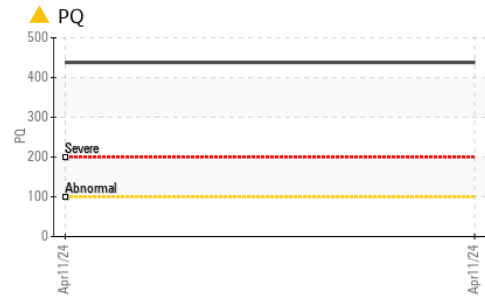
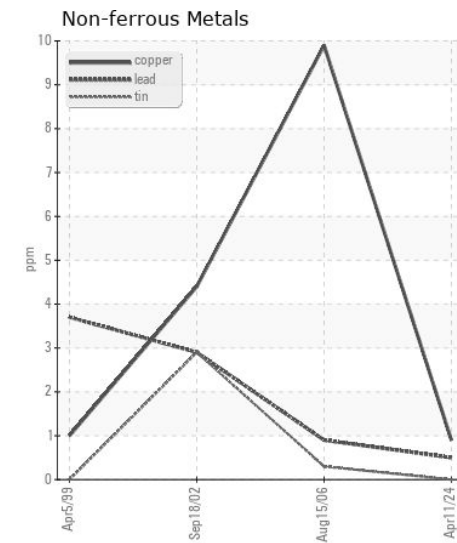
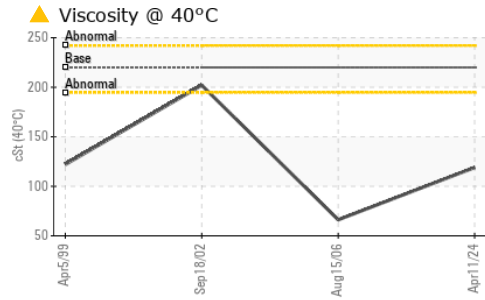
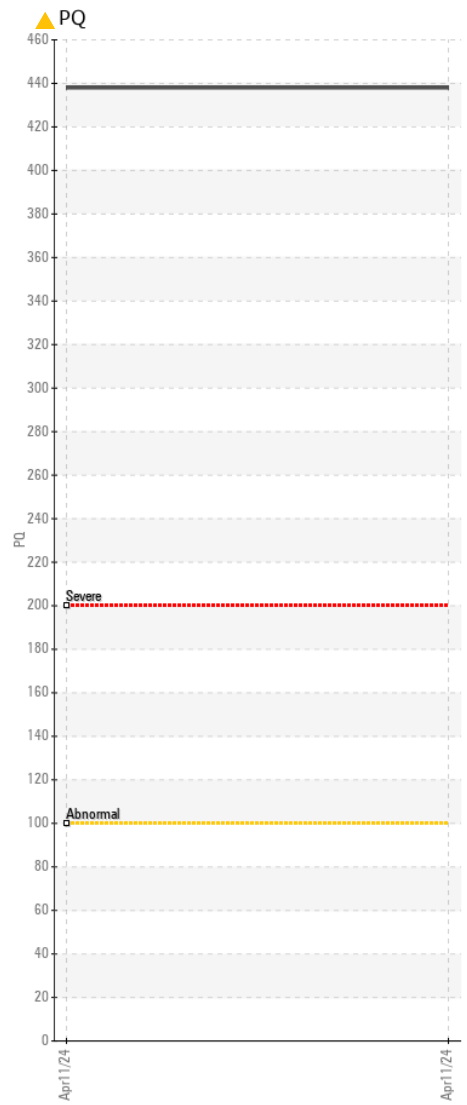
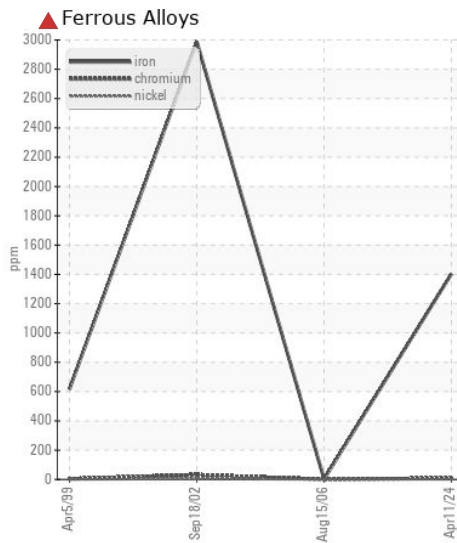
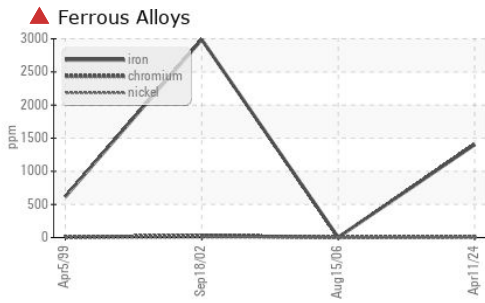
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0857995	WC699447	WC584333
Sample Date		Client Info		11 Apr 2024	15 Aug 2006	18 Sep 2002
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
PQ		ASTM D8184*		▲ 438	---	---
Iron	ppm	ASTM D5185(m)	>200	▲ 1403	3	▲ 2989
Chromium	ppm	ASTM D5185(m)	>15	8	0	▲ 32
Nickel	ppm	ASTM D5185(m)	>15	<1	0	3
Titanium	ppm	ASTM D5185(m)		1	0	<1
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	17	<1	6
Lead	ppm	ASTM D5185(m)	>100	<1	<1	3
Copper	ppm	ASTM D5185(m)	>200	<1	10	4
Tin	ppm	ASTM D5185(m)	>25	0	<1	3
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	39	<1	▲ 56
Potassium	ppm	ASTM D5185(m)	>20	11	<1	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	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
Sodium	ppm	ASTM D5185(m)		4	<1	0
Boron	ppm	ASTM D5185(m)		8	0	38
Barium	ppm	ASTM D5185(m)		<1	0	8
Molybdenum	ppm	ASTM D5185(m)		0	<1	5
Manganese	ppm	ASTM D5185(m)		9	0	31
Magnesium	ppm	ASTM D5185(m)		2	2	14
Calcium	ppm	ASTM D5185(m)		26	30	36
Phosphorus	ppm	ASTM D5185(m)		191	342	306
Zinc	ppm	ASTM D5185(m)		21	388	33
Sulfur	ppm	ASTM D5185(m)		6830	2088	4465
Acid Number (AN)	mg KOH/g	ASTM D974*		0.57	0.35	0.840
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 119	66.2	202



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0857995 **Received** : 15 Apr 2024
Lab Number : 02629010 **Tested** : 16 Apr 2024
Unique Number : 5762142 **Diagnosed** : 17 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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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.