



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

1 [2534809]

Machine Id

01-0040-010-001 SCREW CONV N°1 (1M10)

Component

1 Gearbox

Fluid

MOBIL MOBILGEAR SHC 220 (4 GAL)

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.

WEAR

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

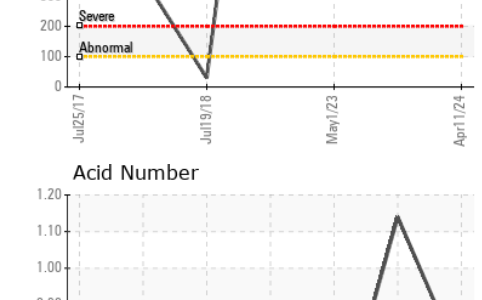
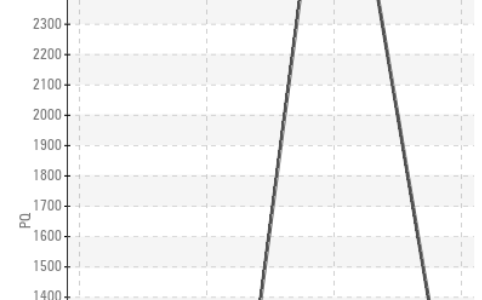
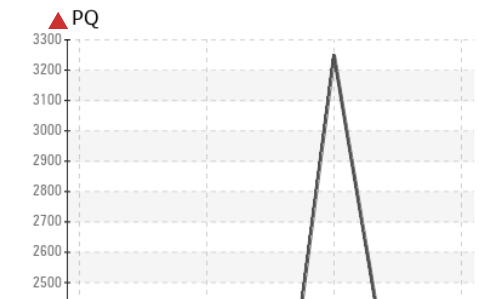
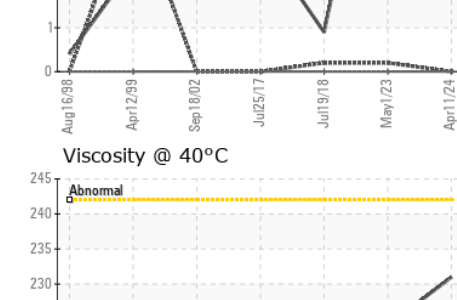
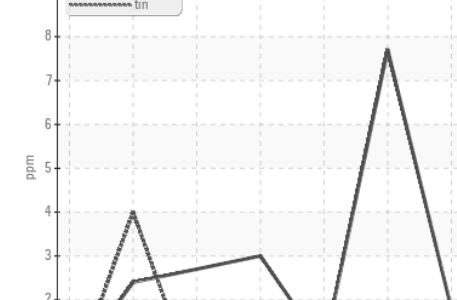
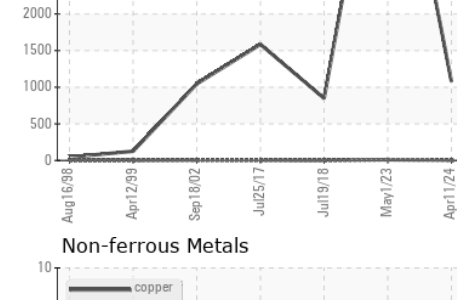
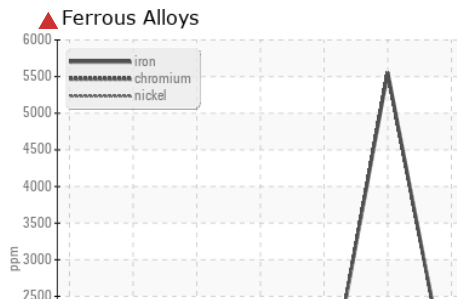
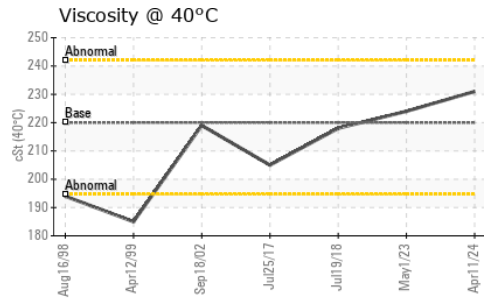
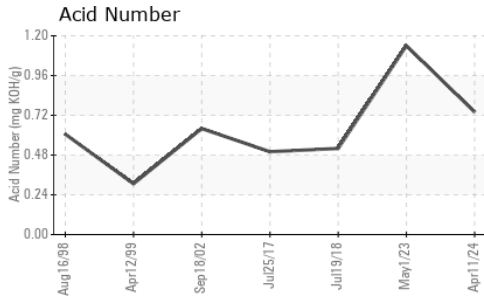
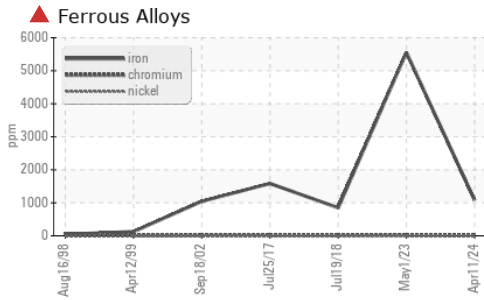
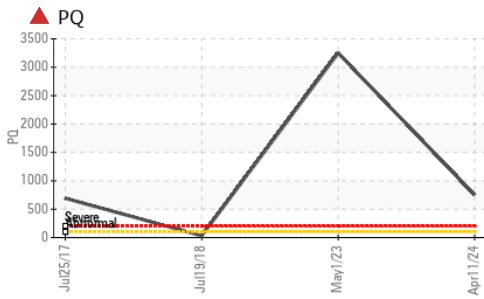
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. 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		WC0857986	WC0754117	WC0295865
Sample Date		Client Info		11 Apr 2024	01 May 2023	19 Jul 2018
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	2	0
Filter Age	yrs	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	SEVERE	ABNORMAL
PQ		ASTM D8184*		▲ 751	▲ 3249	30
Iron	ppm	ASTM D5185(m)	>200	▲ 1080	▲ 5555	▲ 848
Chromium	ppm	ASTM D5185(m)	>15	2	10	1
Nickel	ppm	ASTM D5185(m)	>15	1	6	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	<1
Lead	ppm	ASTM D5185(m)	>100	0	<1	<1
Copper	ppm	ASTM D5185(m)	>200	2	8	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	9	46	5
Potassium	ppm	ASTM D5185(m)	>20	0	2	<1
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	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
Sodium	ppm	ASTM D5185(m)		0	<1	0
Boron	ppm	ASTM D5185(m)		● 22	35	22
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	0
Manganese	ppm	ASTM D5185(m)		9	39	6
Magnesium	ppm	ASTM D5185(m)		<1	0	<1
Calcium	ppm	ASTM D5185(m)		<1	<1	32
Phosphorus	ppm	ASTM D5185(m)		371	410	312
Zinc	ppm	ASTM D5185(m)		2	1	10
Sulfur	ppm	ASTM D5185(m)		● 4967	5842	14368
Acid Number (AN)	mg KOH/g	ASTM D974*		0.74	1.14	0.52
Visc @ 40°C	cSt	ASTM D7279(m)	220	231	224	218



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0857986 **Received** : 15 Apr 2024
Lab Number : 02629034 **Tested** : 16 Apr 2024
Unique Number : 5762166 **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.