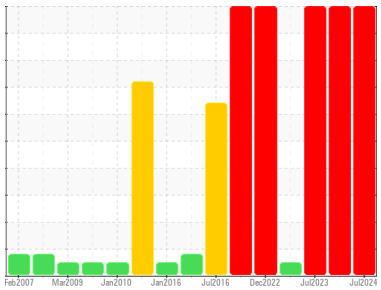
PROBLEM SUMMARY

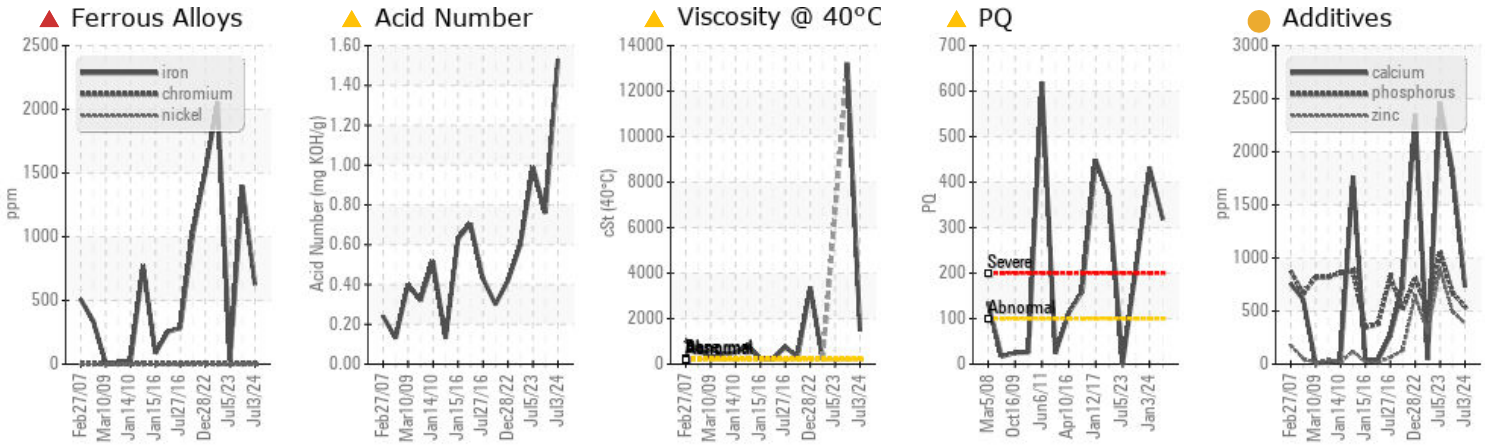
Sample Rating Trend



WEAR

Area
DEMO/53 RECAUSTICIZING
Machine Id
535604 Precoat Filter Worm Gear
Component
Drive Reducer
Fluid
MOBIL MOBILGEAR 600 XP 220 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184*		▲ **318**	▲ 431	210
Iron	ppm	ASTM D5185(m)	>200	▲ **626**	▲ 1395	▲ 2050
Copper	ppm	ASTM D5185(m)		▲ **183**	▲ 254	▲ 470
Antimony	ppm	ASTM D5185(m)	>5	▲ **26**	▲ 38	5
Lithium	ppm	ASTM D5185(m)		▲ **375**	▲ 499	▲ 900
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ **1.53**	0.76	0.99
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **1467**	▲ 13170	---

Customer Id: STANAC
Sample No.: WC
Lab Number: 02646796
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

WEAR

03 Jan 2024 Diag: Kevin Marson

We advise that you check all areas where contaminants can enter the system. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.Iron ppm levels are severe. PQ levels are severe. Antimony ppm levels are abnormal. Copper ppm levels are marginal. The lead level is abnormal. Lithium (Li) level severe at 499ppm., indicates possible grease contamination. The oil viscosity is higher than normal. 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.

view report

WEAR

05 Jul 2023 Diag: Kevin Marson

We advise that you check all areas where contaminants can enter the system. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.Iron ppm levels are severe. Copper and lead ppm levels are abnormal. Lithium (Li) level severe at 900ppm., indicates possible grease contamination. 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.

view report

NORMAL

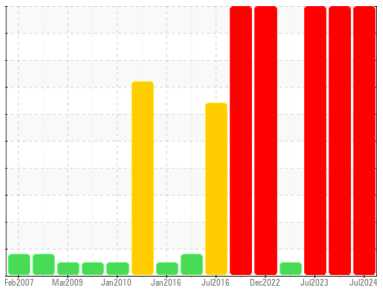
05 Jul 2023 Diag: Kevin Marson

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
DEMO/53 RECAUSTICIZING
Machine Id
535604 Precoat Filter Worm Gear
Component
Drive Reducer
Fluid
MOBIL MOBILGEAR 600 XP 220 (--- LTR)

DIAGNOSIS

Recommendation
We advise that you check all areas where contaminants can enter the system. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

Wear
Iron ppm levels are severe. PQ levels are abnormal. Antimony ppm levels are abnormal. Copper ppm levels are marginal. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination
Lithium (Li) level severe at 375ppm., indicates possible grease contamination. There is no indication of any contamination in the oil.

Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal. Viscosity of sample indicates oil is within ISO 1500 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC**	WC	WC
Sample Date		Client Info		**03 Jul 2024**	03 Jan 2024	05 Jul 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				**SEVERE**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ **318**	▲ 431	210
Iron	ppm	ASTM D5185(m)	>200	▲ **626**	▲ 1395	▲ 2050
Chromium	ppm	ASTM D5185(m)	>10	**<1**	3	<1
Nickel	ppm	ASTM D5185(m)	>10	**1**	3	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)		**<1**	3	<1
Lead	ppm	ASTM D5185(m)		**10**	18	▲ 40
Copper	ppm	ASTM D5185(m)		▲ **183**	▲ 254	▲ 470
Tin	ppm	ASTM D5185(m)		**<1**	2	<1
Antimony	ppm	ASTM D5185(m)	>5	▲ **26**	▲ 38	5
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**<1**	<1	0

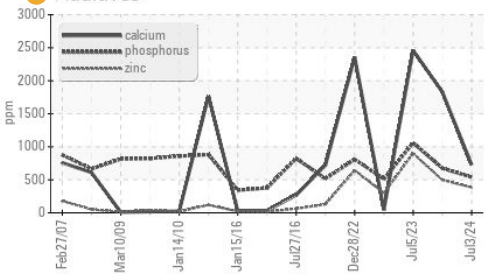
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**7**	19	5
Barium	ppm	ASTM D5185(m)		**1**	4	<1
Molybdenum	ppm	ASTM D5185(m)		**<1**	3	1
Manganese	ppm	ASTM D5185(m)		**6**	14	2
Magnesium	ppm	ASTM D5185(m)		**7**	● 17	2
Calcium	ppm	ASTM D5185(m)		● **729**	● 1828	● 2460
Phosphorus	ppm	ASTM D5185(m)		**540**	676	● 1060
Zinc	ppm	ASTM D5185(m)		● **384**	● 496	● 900
Sulfur	ppm	ASTM D5185(m)		● **2552**	● 4389	● 9280
Lithium	ppm	ASTM D5185(m)		▲ **375**	▲ 499	▲ 900

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**13**	30	6
Sodium	ppm	ASTM D5185(m)		**159**	236	34
Potassium	ppm	ASTM D5185(m)	>20	**12**	27	6

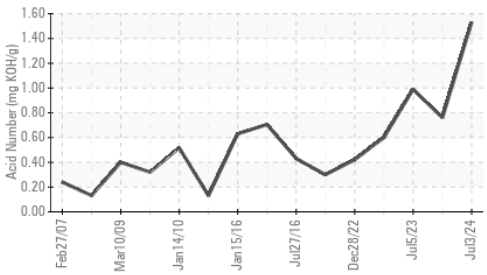
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ **1.53**	0.76	0.99

OIL ANALYSIS REPORT

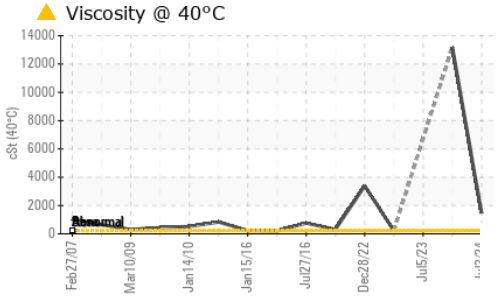
Additives



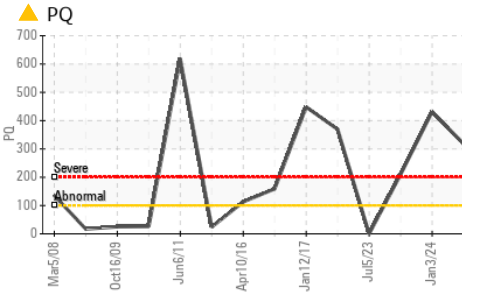
Acid Number



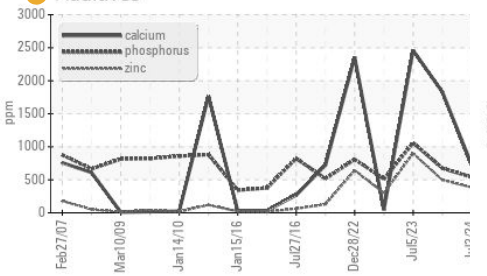
Viscosity @ 40°C



PQ

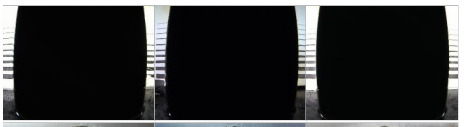


Additives



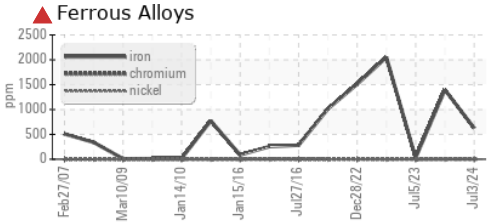
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	LIGHT	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	Visual*		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **1467**	▲ 13170	---

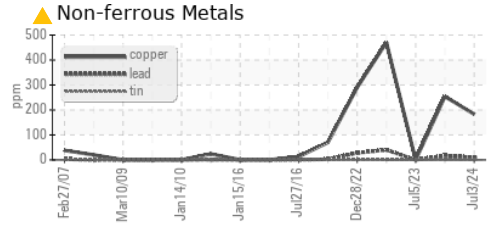
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

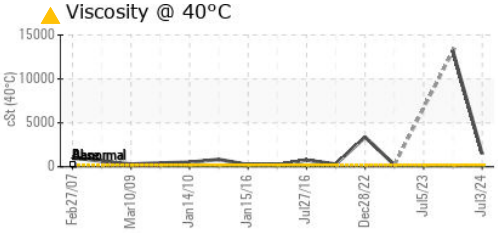
Ferrous Alloys



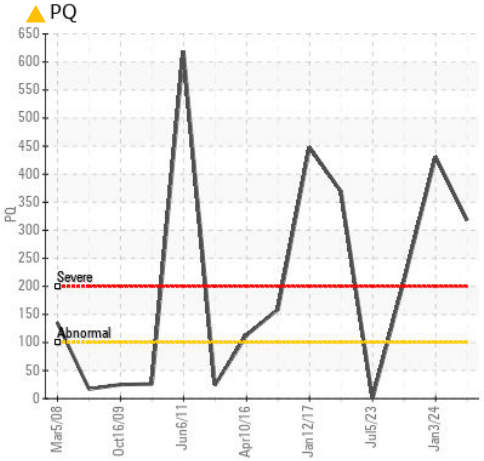
Non-ferrous Metals



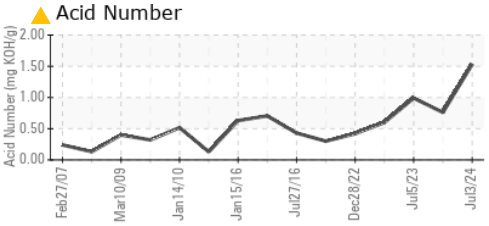
Viscosity @ 40°C



PQ



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02646796
Unique Number : 5812348
Test Package : IND 2 (Additional Tests: TAN Man)

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Kevin Marson

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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