

Area MEK [MEK] A-Filter Gearbox Fluic GEAR OIL ISO 680 (4 GAL)

PERFORMANCE

UNDER

# COMPONENT CONDITION SUMMARY











#### RECOMMENDATION

We recommend an early resample to monitor this condition.

# **PROBLEMATIC TEST RESULTS**

		002.0				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	<u> </u>	37	39
Copper	ppm	ASTM D5185m	>200	<b>A</b> 344	41	57
Tin	ppm	ASTM D5185m	>25	<u> </u>	1	1
Boron	ppm	ASTM D5185m	50	<b>1</b> 01	<b>1</b> 03	89
Molybdenum	ppm	ASTM D5185m	15	<u> </u>	<b>1</b> 84	175
Magnesium	ppm	ASTM D5185m	50	<b>A</b> 353	<b>A</b> 374	296
Calcium	ppm	ASTM D5185m	50	<u> </u>	<b>1</b> 023	881
Zinc	ppm	ASTM D5185m	100	<b>602</b>	627	534
Water	%	ASTM D6304	>0.2	<u> </u>	▲ 0.580	<b>0.249</b>
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3890	<u> </u>	<u> </u>
Debris	scalar	*Visual	NONE	🔺 HEAVY	LIGHT	LIGHT
Visc @ 40°C	cSt	ASTM D445	680	<b>102</b>	<b>1</b> 10	109

Customer Id: CALSHR Sample No.: RP0038978 Lab Number: 06029475 Test Package: IND 2



To discuss the diagnosis or test data:

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To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED ACT	COMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			

### HISTORICAL DIAGNOSIS

# 19 Jul 2023 Diag: Doug Bogart



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



#### 05 Apr 2023 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.





# **OIL ANALYSIS REPORT**





Area MEK Machine Id [MEK] A-Filter Component Gearbox Fluid GEAR OIL ISO 680 (4 GAL)

# DIAGNOSIS

#### Recommendation

We recommend an early resample to monitor this condition.

#### 📥 Wear

Gear wear is indicated. Bearing and/or bushing wear is indicated.

### Contamination

There is a light concentration of water present in the oil. High concentration of visible dirt/debris present in the oil.

#### Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038978	RP0034845	RP0031620
Sample Date		Client Info		06 Dec 2023	19 Jul 2023	05 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<u> </u>	37	39
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	2	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		2	0	0
Aluminum	ppm	ASTM D5185m	>25	4	<1	0
Lead	ppm	ASTM D5185m	>100	23	4	6
Copper	ppm	ASTM D5185m	>200	<u> </u>	41	57
Tin	ppm	ASTM D5185m	>25	<b>1</b> 4	1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
		mothod	limit/booo	ourropt	history	history
ADDITIVE5		method	IIIIII/Dase	Current	Thistory I	TIIStOF y2
Boron	ppm	ASTM D5185m	50	<u> </u>	<u> </u>	89
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	<u> </u>	<u> </u>	175
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	50	<b>A</b> 353	<b>A</b> 374	296
Calcium	ppm	ASTM D5185m	50	<u> </u>	<u> </u>	881
Phosphorus	ppm	ASTM D5185m	350	466	531	478
Zinc	ppm	ASTM D5185m	100	<u> </u>	<mark>▲</mark> 627	534
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185m	<u>∖50</u>	16	5	7
Sodium	nom	ASTM D5185m	200	19	<1	0
Potassium	ppm	ASTM D5185m	>20	8	<1	2
Water	%	ASTM D6304	>0.2	A 0.389	▲ 0.580	▲ 0.249
nom Water	nom	ASTM D6304	>2000	A 3890	▲ 5800	2490
	PP		2000	_ 0000		2100
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.04	1.25	0.58
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONF	NONE	MODER	NONF
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	A MODER
Precipitate	scalar	*Visual	NONE	NONE	NONF	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORMI	NORMI	NORMI	NORMI
Odor	scalar	*Visual	NORMI	NORMI	NORMI	NORMI
Emulsified Water	scalar	*Visual		0.2%	0.2%	0.2%
Enuisined Water	scalar	*\/ieuol	>0.∠	NEC		
THEE WALES	Scalar	visual		NEG	upuning Cipy. CC	



# **OIL ANALYSIS REPORT**



Submitted By: CODY COMPTON