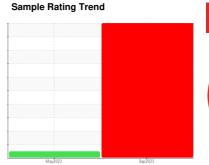


# **OIL ANALYSIS REPORT**



Component
Final Drive
Fluid

NOT GIVEN (--- GAL)





## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

Gear wear is indicated.

#### Contamination

There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

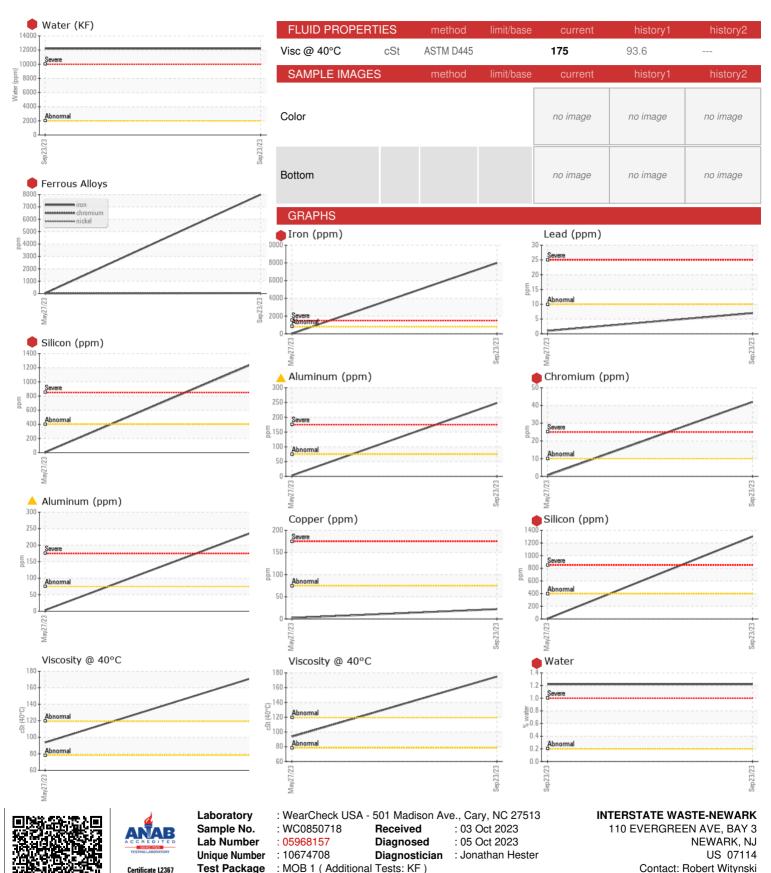
## **Fluid Condition**

The oil is no longer serviceable due to the presence of contaminants.

			May2023	Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850718	WC0745291	
Sample Date		Client Info		23 Sep 2023	27 May 2023	
Machine Age	hrs	Client Info		28355	27770	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	<b>7995</b>	24	
Chromium	ppm	ASTM D5185m	>10	<b>42</b>	<1	
Nickel	ppm	ASTM D5185m	>5	<u> </u>	0	
Titanium	ppm	ASTM D5185m	>15	<u>^</u> 22	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>75	<u>^</u> 248	3	
Lead	ppm	ASTM D5185m	>10	7	1	
Copper	ppm	ASTM D5185m	>75	22	2	
Tin	ppm	ASTM D5185m	>8	2	<1	
Vanadium	ppm	ASTM D5185m		2	0	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	13	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		7	63	
Manganese	ppm	ASTM D5185m		94	<1	
Magnesium	ppm	ASTM D5185m		225	794	
Calcium	ppm	ASTM D5185m		3552	1283	
Phosphorus	ppm	ASTM D5185m		1005	967	
Zinc	ppm	ASTM D5185m		1150	1223	
Sulfur	ppm	ASTM D5185m		12289	3726	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	<b>1302</b>	5	
Sodium	ppm	ASTM D5185m		166	2	
Potassium	ppm	ASTM D5185m	>20	62	1	
Water	%	ASTM D6304	>0.2	<b>1.22</b>		
ppm Water	ppm	ASTM D6304	>2000	12200		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	• 0.2%	NEG	
Free Water	scalar	*Visual		NEG	NEG	



# **OIL ANALYSIS REPORT**



To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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