

WEARSEVERECONTAMINATIONSEVEREFLUID CONDITIONNORMAL

Current

WC0810378

History1 His WC0720449 ----

History2

Machine Id HC2229 Component 2 Winch Fluid GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

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We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Test

Sample Number

UOM

Method

Client Info

Limit/Abn

WEAR

Gear wear is indicated.

CONTAMINATION

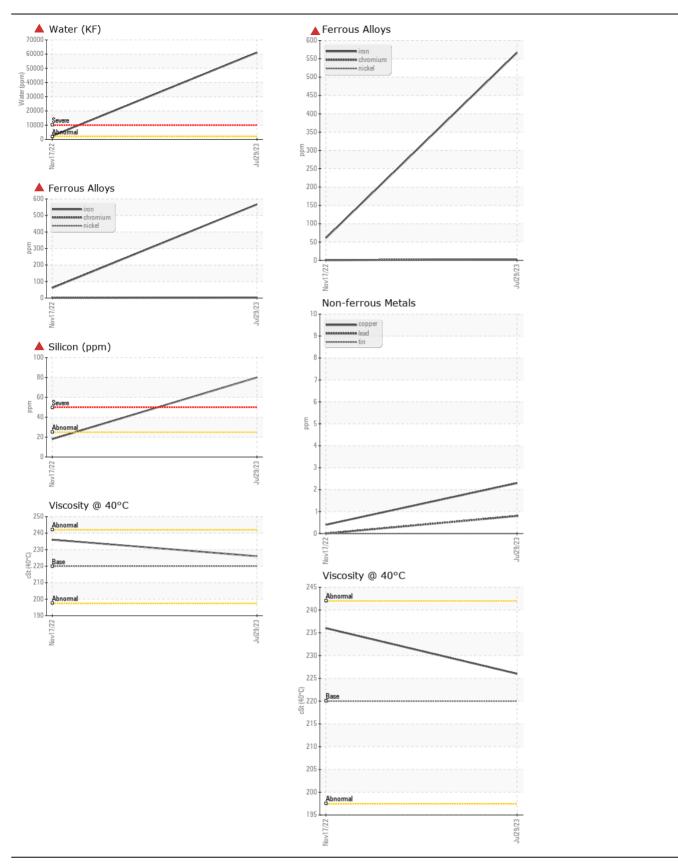
Elemental level of silicon (Si) above normal. There is a high concentration of water present in the oil.

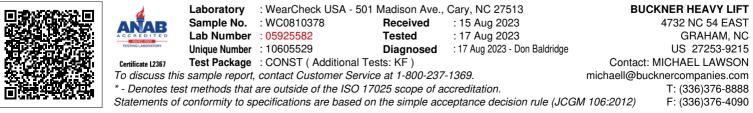
Sample Date		Client Info		29 Jul 2023	17 Nov 2022	
Machine Age	hrs	Client Info		6455	5125	
Oil Age	hrs	Client Info		0	717	
Filter Age	hrs	Client Info		0	717	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	ABNORMAL	
Iron	ppm	ASTM D5185m	>150	4 567	61	
Chromium	ppm	ASTM D5185m	>10	3	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	1	
Aluminum	ppm	ASTM D5185m	>5	2	1	
Lead	ppm	ASTM D5185m	>15	<1	0	
Copper	ppm	ASTM D5185m	>80	2	<1	
Tin	ppm	ASTM D5185m		0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	a 80	18	
Potassium	ppm	ASTM D5185m	>20	3	<1	
Water	%	ASTM D6304	>0.2	6 .11	▲ 0.235	
ppm Water	ppm	ASTM D6304	>2000	6 1100	A 2350	
Silt	scalar	*Visual	NONE	NONE	MODER	
Debris	scalar	*Visual	NONE	LIGHT	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	SOLID	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	
Sodium	ppm	ASTM D5185m		3	0	
Boron	ppm	ASTM D5185m	50	0	<1	
Barium	ppm	ASTM D5185m	15	0	0	
Molybdenum	ppm	ASTM D5185m	15	<1	0	
Manganese	ppm	ASTM D5185m		7	1	
Magnesium	ppm	ASTM D5185m	50	2	<1	
Calcium	ppm	ASTM D5185m	50	8	38	
Phosphorus	ppm	ASTM D5185m	350	388	248	
Zinc	ppm	ASTM D5185m	100	53	26	
Sulfur	ppm	ASTM D5185m	12500	2013	1132	
Visc @ 40°C	cSt	ASTM D445	220	226	236	
	501					

FLUID CONDITION

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

Contact/Location: MICHAEL LAWSON - BUCGRA





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