

OIL ANALYSIS REPORT

Sample Rating Trend



CR6624

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

DIAGNOSIS

A Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal.

SAMPLE INFORM	JATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0867443	WC0671373	WC0534197
Sample Date		Client Info		03 Jan 2024	31 Mar 2022	10 Apr 2021
Machine Age	hrs	Client Info		11375	9361	8512
Oil Age	hrs	Client Info		0	0	8512
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	26	5	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	1 6	2	0
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>80	<1	<1	0
Tin	ppm	ASTM D5185m		0	0	<1
Antimony	ppm	ASTM D5185m	>5			<1
Vanadium	maa	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	13	<1	2
Barium	mag	ASTM D5185m	15	0	0	0
Molvbdenum	maa	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	maa	ASTM D5185m	50	2	0	<1
Calcium	ppm	ASTM D5185m	50	2	1	0
Phosphorus	ppm	ASTM D5185m	350	465	239	349
Zinc	ppm	ASTM D5185m	100	2	7	0
Sulfur	ppm	ASTM D5185m	12500	6208	468	33
CONTAMINANTS	3	method	limit/base	current	historv1	historv2
Silicon	nom	ASTM D5185m	> 25	A 44	15	0
Sodium	ppm	ASTM D5105III	>20	<u> </u>	-1	0
Potaccium	ppm	AGTM D5105III	> 20	6	0	1
Water	o/		>0.2	0 459	0	I
ppm Water	⁷⁰	ASTM D0304	>2002	4580		
VISUAI	le le	method	limit/base	current	historv1	history2
White Metal	coalar	*\/ieuol				MODED
Vollow Motal	scalar	*Vicual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*\/icual	NONE	MODER	NONE	NONE
Dobric	scalar	*\/icucl	NONE	NONE	LIGHT	NONE
Deblis Sand/Dirt	scalar	*\/ioual	NONE	NONE		NONE
	scalar	*Visual	NORM		NONE	NONE
Appearance	scalar	*\/ioual	NORIVIL		NORIVIL	NORIVIL
	scalar	visual	NORIVIL		NORME	NORML
Emuisified Water	scalar	visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	Visual		NEG	NEG	NEG

Contact/Location: JOHN HAWKINS - BUCWILTX



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