

Machine Id **CR6619 - 4.2** Component **Right Winch** Fluid **GEAR OIL ISO 220 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

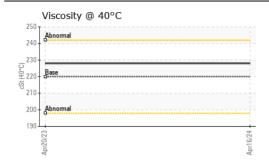
There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

TestUOMMethodLimit/AbCurrentHistory1History2Sample NumberClient InfoMC0923058WC0784872Sample DateClient InfoI6 Apr 202320 Apr 2023Machine AgehrsClient InfoI000922Filter AgehrsClient InfoI000922Oil ChangedIrsClient InfoInfoOFilter ChangedClient InfoInfoN/AChangedFilter ChangedClient InfoN/AChangedFilter ChangedClient InfoN/AChangedSample StatusVision>10<10IronppmASTM D5185m>10<10NickelppmASTM D5185m>10<10AluminumppmASTM D5185m>520AluminumppmASTM D5185m>5<10YendoutumppmASTM D5185m>5<10YendoutumppmASTM D5185m>5<10YendoutumppmASTM D5185m>5<10YendoutumppmASTM D5185m>216YendoutumppmASTM D5185m>216YendoutumppmASTM D5185m>2216Yendoutumppm </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample Date Client Info 16 Apr 2024 20 Apr 2023 Machine Age hrs Client Info 7221 6570 Oil Age hrs Client Info 1000 922 Filter Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Oil Changed res Client Info NoRMAL Changed Oil Changed Client Info NoRMAL NORMAL Sample Status Visual NORMAL NORMAL Iron ppm ASTM D5185m >10 <1 0 Sample Status ppm ASTM D5185m >10 <1 0 Iron ppm ASTM D5185m >10 <1 0 Silver ppm ASTM D5185m >5 2 0 Lead ppm </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info72216570Oil AgehrsClient Info1000922Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedSample StatusClient InfoN/AChangedIronppmASTM D5185m>10-10NckelppmASTM D5185m>10-10NickelppmASTM D5185m>10-10NickelppmASTM D5185m>10-10SilverppmASTM D5185m>10-10AluminumppmASTM D5185m>520AluminumppmASTM D5185m>5-10VanadiumppmASTM D5185m>5-10VanadiumppmASTM D5185m>5-10VanadiumppmASTM D5185m>25216VanadiumppmASTM D5185m>2216VanadiumppmASTM D5185m>2216VanadiumppmASTM D5185m>2216VanadiumppmASTM D5185m>2216VanadiumppmASTM D5185m>2216VanadiumppmASTM D5185m>2216 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0923058</th> <th>WC0784872</th> <th></th>	Sample Number		Client Info		WC0923058	WC0784872	
Oil AgehrsClient Info1000922Filter AgehrsClient Info00Oil ChangedClient InfoKAChangedFilter ChangedClient InfoN/AChangedSample StatusVNORMALNORMALIronppmASTM D5185m>10<10NickelppmASTM D5185m>10<10NickelppmASTM D5185m>10<10SilverppmASTM D5185m>520AluminumppmASTM D5185m>520LeadppmASTM D5185m>5<10VanadiumppmASTM D5185m>80<11VanadiumppmASTM D5185m>200VanadiumppmASTM D5185m>202<16VanadiumppmASTM D5185m>202<16VaterVC Method>.02NCNENCNESiliconppmASTM D5185m>202<16SulforhppmASTM D5185m>202<16SulforhppmASTM D5185m>202<16VaterVC Method>.02NCNENONESulforhppmASTM D5185m>202<16<	Sample Date		Client Info		16 Apr 2024	20 Apr 2023	
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Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoN/AChangedSample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>150137ChromiumppmASTM D5185m>10<10NickelppmASTM D5185m>10<10TitaniumppmASTM D5185m>520AluminumppmASTM D5185m>520LeadppmASTM D5185m>5<10CopperppmASTM D5185m>80<11VanadiumppmASTM D5185m>80<11VanadiumppmASTM D5185m>200VanadiumppmASTM D5185m>202<16Valow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>202<16VaterWC Method>.2NEGNORESilitscalar*VisualNONENONEDebrisscalar*VisualNORENORENOREAppearancescalar*VisualNORENORENOREAppearancescalar*VisualNORNORMLNORML <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1000</th> <th>922</th> <th></th>	Oil Age	hrs	Client Info		1000	922	
Filter Changed Client Info N/A Changed Filter Changed Client Info N/A Changed Iron ppm ASTM D5185m >150 13 7 Iron ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m >10 <1 0 Titanium ppm ASTM D5185m >10 <1 0 Silver ppm ASTM D5185m >5 2 0 Lead ppm ASTM D5185m >5 2 0 Vanadium ppm ASTM D5185m >15 <1 0 Vanadium ppm ASTM D5185m >80 <1 1 Vanadium ppm ASTM D5185m >20 2 16 Vanadium ppm ASTM D5185m >20 2 16 <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th></th>	Filter Age	hrs	Client Info		0	0	
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Chromium ppm ASTM D5185m >10 <1	Sample Status				NORMAL	NORMAL	
Chromium ppm ASTM D5185m >10 <1	Iron			. 150	10		
Nickel ppm ASTM D5185m >10 <1							
Titanium ppm ASTM D5185m <1							
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CopperppmASTM D5185m>80<1					_		
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m50<10BoronppmASTM D5185m1500BariumppmASTM D5185m15<10	Silt	scalar	*Visual	NONE	MODER	MODER	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m50<10BoronppmASTM D5185m50<10BariumppmASTM D5185m1500MolybdenumppmASTM D5185m15<10	Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m50<10BoronppmASTM D5185m50<10BariumppmASTM D5185m1500MolybdenumppmASTM D5185m15<10	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG Sodium ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 50 <1 0 Barium ppm ASTM D5185m 15 0 0 Molybdenum ppm ASTM D5185m 15 <1 0	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 50 <1	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 50 <1	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 50 <1	Sodium	maa	ASTM D5185m		0	0	
Barium ppm ASTM D5185m 15 0 0 Molybdenum ppm ASTM D5185m 15 <1				50			
Molybdenum ppm ASTM D5185m 15 <1	Barium						
	Molybdenum	ppm	ASTM D5185m	15	<1	0	
Manganese ppm ASTM D5185m <1 0	Manganese		ASTM D5185m		<1	0	
Magnesium ppm ASTM D5185m 50 <1	Magnesium		ASTM D5185m	50	<1	1	
Calcium ppm ASTM D5185m 50 1 2	Calcium		ASTM D5185m	50	1	2	
Phosphorus ppm ASTM D5185m 350 290 368	Phosphorus	ppm	ASTM D5185m	350	290	368	
Zinc ppm ASTM D5185m 100 8 1	Zinc	ppm	ASTM D5185m	100	8	1	
Sulfur ppm ASTM D5185m 12500 4734 2023	Sulfur	ppm	ASTM D5185m	12500	4734	2023	
Visc @ 40°C cSt ASTM D445 220 228 228	Visc @ 40°C	cSt	ASTM D445	220	228	228	

Contact/Location: MICHAEL LAWSON - BUCGRA



Ferrous Alloys 13 10 0 ppm 0 Apr16/24 Non-ferrous Metals 10 lead maa Viscosity @ 40°C 24 240 235 230 22! cSt (40°C) 21 210 205 200 Abnorma 195 Apr16/24 -



Sample No. : WC0923058 Received : 19 Apr 2024 4732 NC 54 EAST Lab Number : 06155307 Tested : 24 Apr 2024 GRAHAM, NC Unique Number : 10990730 Diagnosed : 24 Apr 2024 - Sean Felton US 27253-9215 Test Package : CONST Contact: MICHAEL LAWSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. michaell@bucknercompanies.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

Contact/Location: MICHAEL LAWSON - BUCGRA Page 2 of 2

BUCKNER HEAVY LIFT