

OIL ANALYSIS REPORT

BMON-017-S6P-CGHST-CAGE HOIST Component

Hoist Fluic

ESSO SPARTAN EP 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

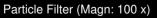
All component wear rates are normal.

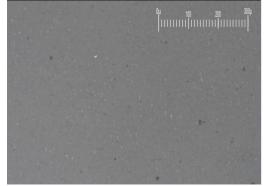
Contamination

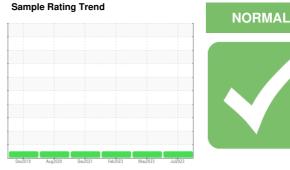
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









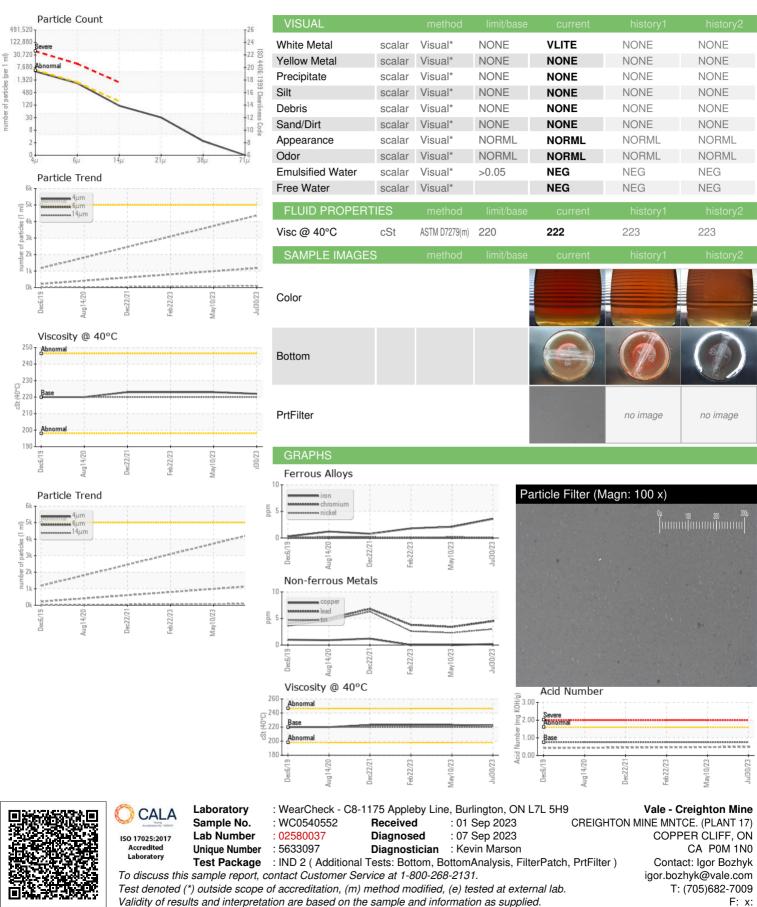
Sample Number Client Info WC0540552 WC0413486 Sample Date Client Info 30 Jul 2023 10 May 2023 22 Feb 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Age Client Info 0 0 0 0 Oil Age Client Info N/A N/A N/A Sample Status nethod imitbase current history! history! Iron ppm ASTM D518(m) >20 4 2 2 Chromium ppm ASTM D518(m) 0 0 0 0 Silver ppm ASTM D518(m) 0 0 0 0 Auminum ppm ASTM D518(m) 20 41 3 4 Copper ppm ASTM D518(m) 0 0 0 0 Yanadum ppm ASTM D518(m) 0 0	SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Date Client Into 30 Jul 2023 10 May 2023 22 Feb 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info NA N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM05185(m) >20 4 2 2 Chromium ppm ASTM05185(m) >20 4 1 0 Nickel ppm ASTM05185(m) >20 4 3 4 Copper ppm ASTM05185(m) >20 4 3 4 Copper ppm ASTM05185(m) >20 4 3 4 Copper ppm ASTM05185(m) S0 <1 0 0 Cadmium ppm ASTM05185(m) S0 0 0 0 Cadmium ppm <th></th> <th></th> <th></th> <th>mmbase</th> <th></th> <th></th> <th></th>				mmbase			
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Oil Changed Sample Status Client Info N/A N/A N/A N/A N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 4 2 2 Chromium ppm ASTM D5185(m) >20 4 2 2 Chromium ppm ASTM D5185(m) >20 4 1 0 Nickel ppm ASTM D5185(m) >20 <1 <1 0 Aluminum ppm ASTM D5185(m) >20 <1 <1 0 0 Aluminum ppm ASTM D5185(m) >20 4 3 4 Copper ppm ASTM D5185(m) >20 3 2 3 Antimony ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m)	Ŭ						
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Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) 0 0 0 0 Silver ppm ASTM D5185(m) 0 0 0 0 Aluminum ppm ASTM D5185(m) >20 <1 <1 0 Lead ppm ASTM D5185(m) >20 <1 0 0 Auminum ppm ASTM D5185(m) >20 <1 0 0 Lead ppm ASTM D5185(m) >20 <1 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Chadium ppm ASTM D5185(m) 0 0 0 0 Abtritives method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 Calcium ppm ASTM D5185(m) 0 1 1 <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185(m) >20 <1	Iron	ppm	ASTM D5185(m)	>20	4	2	2
Titanium ppm ASTM D5165(m) 0 0 0 Silver ppm ASTM D5165(m) >20 <1 <1 0 Lead ppm ASTM D5165(m) >20 <1 <1 0 Lead ppm ASTM D5165(m) >20 <1 0 0 Tin ppm ASTM D5165(m) >20 <1 0 0 Vanadium ppm ASTM D5165(m) >20 3 2 3 Antimony ppm ASTM D5165(m) 0 0 0 0 Vanadium ppm ASTM D5165(m) 0 0 0 0 Cadmium ppm ASTM D5165(m) 0 0 0 0 Barium ppm ASTM D5165(m) 0 0 0 0 Magnesium ppm ASTM D5165(m) 0 0 0 0 Gron ppm ASTM D5165(m) 0 0 0 0	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Silver ppm ASTM D5185(m) 0 0 0 Aluminum ppm ASTM D5185(m) >20 <1 <1 0 Lead ppm ASTM D5185(m) >20 4 3 4 Copper ppm ASTM D5185(m) >20 3 2 3 Antimony ppm ASTM D5185(m) 20 3 2 3 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 2774 294 296 <	Nickel	ppm	ASTM D5185(m)	>20	<1	<1	0
Aluminum ppm ASTM D5165(m) >20 <1	Titanium	ppm	ASTM D5185(m)		0	0	0
Lead ppm ASTM D5185(m) >20 4 3 4 Copper ppm ASTM D5185(m) >20 <1	Silver	ppm	ASTM D5185(m)		0	0	0
Copper ppm ASTM D5185(m) >20 <1	Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Tin ppm ASTM D5185(m) >20 3 2 3 Antimony ppm ASTM D5185(m) 0 <1 <1 Vanadium ppm ASTM D5185(m) 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 Boron ppm ASTM D5185(m) 5 1 1 3 Barium ppm ASTM D5185(m) 0 0 0 0 Malganese ppm ASTM D5185(m) 0 0 0 0 Galcium ppm ASTM D5185(m) 0 -1 <1 <1 Magnese ppm ASTM D5185(m) 0 0 0 0 Calcium ppm ASTM D5185(m) 1.7 3 1 1 1 Phosphorus ppm ASTM D5185(m) 3 14 8 5 Sulf	Lead	ppm	ASTM D5185(m)	>20	4	3	4
Antimony ppm ASTM D5185(m) 0 <1	Copper	ppm	ASTM D5185(m)	>20	<1	0	0
Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 1 1 3 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 1 1 1 Manganese ppm ASTM D5185(m) 0 1 1 1 Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) 3 14 8 5 Sulfur ppm ASTM D5185(m) 3 14 8 5 Sulfur ppm ASTM D5185(m) >15 0 <t< th=""><th>Tin</th><th>ppm</th><th>ASTM D5185(m)</th><th>>20</th><th>3</th><th>2</th><th>3</th></t<>	Tin	ppm	ASTM D5185(m)	>20	3	2	3
Vanadium ppm ASTM D5/85(m) 0 0 0 Beryllium ppm ASTM D5/85(m) 0 0 0 Cadmium ppm ASTM D5/85(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5/85(m) .5 1 1 3 Barium ppm ASTM D5/85(m) 0 0 0 0 Molybdenum ppm ASTM D5/85(m) 0 21 0 0 Magnasese ppm ASTM D5/85(m) 0 <11	Antimony	ppm	ASTM D5185(m)		0	<1	<1
Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) .5 1 1 3 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 1 <1 <1 Manganese ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) 3 14 8 5 Sulfur ppm ASTM D5185(m) 3 565 9373 9186 Lithium ppm ASTM D5185(m) >1 <1 <1 2 Solicon ppm ASTM D5185(m) >10 0 0	Vanadium		ASTM D5185(m)		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) .5 1 1 3 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Magnesse ppm ASTM D5185(m) 0 <1 <1 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) 250 274 294 296 Sulfur ppm ASTM D5185(m) 3 14 8 5 Sulfur ppm ASTM D5185(m) 30 0 0 0 Sodium ppm ASTM D5185(m) >15 0 <th>Beryllium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Beryllium	ppm	ASTM D5185(m)		0	0	0
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Barium ppm ASTM D5185(m) 0 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 <1 <1 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 1.7 3 1 1 Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 <1 <1 2 Potassium ppm ASTM D76	ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 <1 <1 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 1.7 3 1 1 Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 <1 <1 2 Potassium ppm ASTM D7647 <td< th=""><th>Boron</th><th>ppm</th><th>ASTM D5185(m)</th><th>.5</th><th>1</th><th>1</th><th>3</th></td<>	Boron	ppm	ASTM D5185(m)	.5	1	1	3
Molybdenum ppm ASTM D5185(m) 0 0 0 0 0 Manganese ppm ASTM D5185(m) 0 <1 <1 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 1.7 3 1 1 Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) 3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .4 1 <1 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 <1 <1 2 Potassium ppm ASTM D7647	Barium		ASTM D5185(m)		0	0	0
Manganese ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Calcium ppm ASTM D5185(m) 1.7 3 1 1 Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Lithium ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .4 .1 .1 .1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 <1 .1 1 2 Potassium ppm ASTM D5647 >5000 4366 Particles >4µm ASTM D7647	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Phosphorus ppm ASTM D5185(m) 250 274 294 296 Zinc ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 14 8 5 Lithium ppm ASTM D5185(m) .3 14 8 5 Lithium ppm ASTM D5185(m) .3 14 8 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >20 <1 <1 2 Potassium ppm ASTM D5185(m) >20 <1	Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Zinc ppm ASTM D5185(m) .3 14 8 5 Sulfur ppm ASTM D5185(m) .3 8565 9373 9186 Lithium ppm ASTM D5185(m) .41 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >20 <1 <1 2 Potassium ppm ASTM D7647 >5000 4366 Particles >4µm ASTM D7647 >1300 1181 Particles >14µm ASTM D7647 >10 2 Particles >21µm ASTM D7647 3 0	Calcium	ppm	ASTM D5185(m)	1.7	3	1	1
Sulfur ppm ASTM D5185(m) 8565 9373 9186 Lithium ppm ASTM D5185(m) <1	Phosphorus	ppm	ASTM D5185(m)	250	274	294	296
Lithium ppm ASTM D5185(m) <1	Zinc	ppm	ASTM D5185(m)	.3	14	8	5
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Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 1 1 2 2 Potassium ppm ASTM D5185(m) >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 4366 Particles >6µm ASTM D7647 >1300 1181 Particles >6µm ASTM D7647 >160 99 Particles >21µm ASTM D7647 >40 27 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm ASTM D5185(m) 1 1 2 Potassium ppm ASTM D5185(m) >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 4366 Particles >6µm ASTM D7647 >1300 1181 Particles >6µm ASTM D7647 >160 99 Particles >21µm ASTM D7647 >40 27 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 1 1 2 Potassium ppm ASTM D5185(m) >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 4366 Particles >6µm ASTM D7647 >1300 1181 Particles >6µm ASTM D7647 >160 99 Particles >14µm ASTM D7647 >40 27 Particles >21µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Potassium ppm ASTM D5185(m) >20 <1	Sodium		· · /		1	1	
Particles >4µm ASTM D7647 >5000 4366 Particles >6µm ASTM D7647 >1300 1181 Particles >14µm ASTM D7647 >160 99 Particles >14µm ASTM D7647 >160 99 Particles >21µm ASTM D7647 >40 27 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2			. ,		<1	<1	
Particles >6μm ASTM D7647 >1300 1181 Particles >14μm ASTM D7647 >160 99 Particles >14μm ASTM D7647 >160 99 Particles >21μm ASTM D7647 >40 27 Particles >38μm ASTM D7647 >10 2 Particles >38μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >6μm ASTM D7647 >1300 1181 Particles >14μm ASTM D7647 >160 99 Particles >14μm ASTM D7647 >160 99 Particles >21μm ASTM D7647 >40 27 Particles >38μm ASTM D7647 >10 2 Particles >38μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >4um		ASTM D7647	>5000	4366		
Particles >14µm ASTM D7647 >160 99 Particles >21µm ASTM D7647 >40 27 Particles >38µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>1300	1181		
Particles >21μm ASTM D7647 >40 27 Particles >38μm ASTM D7647 >10 2 Particles >37μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2							
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Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2							
Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/14 FLUID DEGRADATION method limit/base current history1 history2							
	FLUID DEGRADA		method	limi <u>t/base</u>	current	historv1	historv2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.75	0.49		

Report Id: INCCRE [WCAMIS] 02580037 (Generated: 09/07/2023 15:50:16) Rev: 1

Contact/Location: Igor Bozhyk - INCCRE



OIL ANALYSIS REPORT



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