

OIL ANALYSIS REPORT

Sample Rating Trend



KAESR 5671821 (S/N 3204)

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. We were unable to perform a particle count on this sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

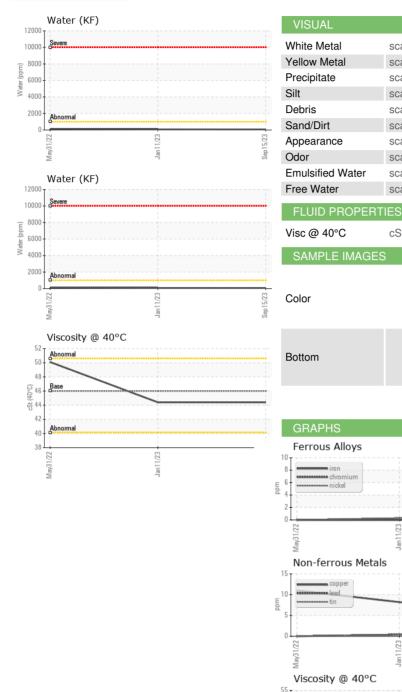
Fluid Condition

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

Sample NumberClient InfoKCP40089DKCP54335KCP44503Sample DateClient Info15 Sep 202311 Jan 202331 May 2022Machine AgehrsClient Info14345113948375Oil AgehrsClient Info1434530008375Oil ChangedClient InfoChangedNot ChangedChanged							
Sample Date Client Info 15 Sep 2023 11 Jan 2023 31 May 2022 Machine Age hrs Client Info 14345 11394 8375 Oil Age hrs Client Info 14345 3000 8375 Oil Changed Client Info Changed Changed Changed Changed Sample Status Init/base current history1 history1 history1 Iron ppm ASTM 05185n >50 0 0 0 Chromium ppm ASTM 05185n 0 -1 0 0 Nickel ppm ASTM 05185n 25 0 -1 0 Auminum ppm ASTM 05185n 25 0 -1 0 Vanadium ppm ASTM 05185n 50 7 8 11 1 Tin ppm ASTM 05185n 0 0 0 0 Vanadium ppm ASTM 05185n 0 0 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age Di Age hrs Hrs Client Info 14345 11394 8375 Oil Age Sample Status Client Info 14345 3000 8375 Oil Age Sample Status Client Info Changed NORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >25 0 <1	Sample Number		Client Info		KCP40089D	KCP54335	KCP44503
Oil Age Inrs Client Info 14345 3000 8375 Oil Changed Client Info Changed Not Changed Changed Sample Status method limit/base current history2 Iron ppm ASTM 05185m >50 0 0 0 Oli Chromium ppm ASTM 05185m >50 0 0 0 Ornomium ppm ASTM 05185m >50 0 0 0 Silver ppm ASTM 05185m >25 0 1 <1	Sample Date		Client Info		15 Sep 2023	11 Jan 2023	31 May 2022
Oil Changed Sample Status Client Info Changed NORMAL Not Changed ABNORMAL Changed ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >25 0 1 0 Nickel ppm ASTM D5185m >25 0 1 0 Aluminum ppm ASTM D5185m >25 0 1 0 Lead ppm ASTM D5185m >50 7 8 11 Tin ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Magnesize ppm ASTM D5185m 0 0 0 <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>14345</th> <td>11394</td> <td>8375</td>	Machine Age	hrs	Client Info		14345	11394	8375
Sample Status method Imit/base current history1 ABNORMAL WEAR METALS method Imit/base current history2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Sliver ppm ASTM D5185m >25 0 1 -1 Lead ppm ASTM D5185m >25 0 -1 0 Copper ppm ASTM D5185m >50 7 8 11 Tin ppm ASTM D5185m 50 7 8 11 Copper ppm ASTM D5185m 0 0 0 0 Adminum ppm ASTM D5185m 0 0 0 0 Adminum ppm ASTM D5185m 0 0 0 0	Oil Age	hrs	Client Info		14345	3000	8375
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 225 0 1 <1	Oil Changed		Client Info		Changed	Not Changd	Changed
Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m 0 <1 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Auminum ppm ASTM D5185m >25 0 <1 <1 <1 Lead ppm ASTM D5185m >50 7 8 11 1 <1 0	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Astm D5185m 0 1 <1 <1 <1 Lead ppm ASTM D5185m >25 0 <1 0 Copper ppm ASTM D5185m >50 7 8 11 Tin ppm ASTM D5185m 50 7 8 11 0 Cadmium ppm ASTM D5185m 50 7 8 11 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Cadium ppm ASTM D5185m 0 0 0 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 <1 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 0 1 <1	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m \$25 0 1 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 1 <1	Nickel		ASTM D5185m		0	<1	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 1 <1	Titanium		ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >25 0 1 <1 Lead ppm ASTM D5185m >25 0 <1	Silver		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m<>25 0 <1 0 Copper ppm ASTM D5185m >50 7 8 11 Tin ppm ASTM D5185m >15 0 <1	Aluminum		ASTM D5185m	>25	0	1	<1
Copper ppm ASTM D5185m >50 7 8 11 Tin ppm ASTM D5185m >15 0 <1	Lead		ASTM D5185m	>25		<1	0
Tin ppm ASTM D5185m >15 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 10 1 Phosphorus ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Sulfur ppm ASTM D5185m 25 0 1 0 Sodium ppm ASTM D6185m 20 0 1 1 <td>Copper</td> <td></td> <td></td> <td>>50</td> <th>7</th> <td>8</td> <td>11</td>	Copper			>50	7	8	11
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1	• •				0	<1	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 90 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 90 0 10 1 Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 1 0 55 3 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0	Vanadium		ASTM D5185m			0	0
Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1					0	0	0
Barium ppm ASTM D5185m 90 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5165m 0 0 0 Manganese ppm ASTM D5185m 90 0 10 1 Calcium ppm ASTM D5185m 90 0 10 1 Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 0 555 3 Zinc ppm ASTM D5185m 12 78 0 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D7647 2316 Particles >4µm	Boron	ppm	ASTM D5185m		0	0	0
Marganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 90 0 10 1 Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 0 55 3 Zinc ppm ASTM D5185m 12 78 0 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Potassium ppm ASTM D5185m >20 0 0 1 ppm Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D7647 2316 Particles >4µm	Barium	ppm	ASTM D5185m	90	0	<1	0
Magnesium ppm ASTM D5185m 90 0 10 1 Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 0 55 3 Zinc ppm ASTM D5185m 0 55 3 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D7647 2316 Particles >4µm ASTM D7647 >1300 460 Particles >14µm	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m 0 55 3 Zinc ppm ASTM D5185m 0 55 3 Sulfur ppm ASTM D5185m 12 78 0 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Vater % ASTM D5185m >20 0 0 1 Water % ASTM D504 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D7647 = 2316 Particles >4µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 58 Particles >21µm	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus ppm ASTM D5185m 0 55 3 Zinc ppm ASTM D5185m 12 78 0 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D5044 >0.1 0.0066 0.007 0.011 ppm Water ppm ASTM D7647 = 2316 Particles >4µm ASTM D7647 >1300 660 Particles >4µm ASTM D7647 >80 58 Particles >14µm ASTM D7647 >20	Magnesium	ppm	ASTM D5185m	90	0	10	1
Zinc ppm ASTM D5185m 12 78 0 Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.0066 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 2316 Particles >6µm ASTM D7647 >1300 4 Particles >21µm ASTM D7647 >20 4 Particles >38µm AS	Calcium	ppm	ASTM D5185m	2	0	1	0
Sulfur ppm ASTM D5185m 13949 20484 17505 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >25 0 1 0 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.0066 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 409 Particles >1µm ASTM D7647 >20 409 Particles >21µm ASTM D7647 >20 4 Particles >71µm ASTM D7647	Phosphorus	ppm	ASTM D5185m		0	55	3
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m >20 0 0 1 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.0006 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 40 Particles >21µm ASTM D7647 >20 4 Particles >38µm ASTM D7647 4 <td< td=""><td>Zinc</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>12</th><td>78</td><td>0</td></td<>	Zinc	ppm	ASTM D5185m		12	78	0
Silicon ppm ASTM D5185m >25 0 1 0 Sodium ppm ASTM D5185m 1 4 0 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 4 Particles >14µm ASTM D7647 >80 4 Particles >21µm ASTM D7647 >20 4 Particles >38µm ASTM D7647 >3 4 Particles >71µm ASTM D7647 4 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/15 <th>Sulfur</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>13949</th> <th>20484</th> <th>17505</th>	Sulfur	ppm	ASTM D5185m		13949	20484	17505
Sodium ppm ASTM D5185m 1 4 0 Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >6µm ASTM D7647 >80 4 58 Particles >14µm ASTM D7647 >20 4 58 Particles >38µm ASTM D7647 -3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/15 FLUID DEGRADATION method limit/base current history1 </th <th>CONTAMINANTS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 1 Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 4 58 Particles >21µm ASTM D7647 >20 4 Particles >38µm ASTM D7647 >3 4 Particles >71µm ASTM D7647 3 0 18/17/15 FLUID DEGRADATION method limit/base current history1 history2		ppm	ASTM D5185m	>25	0		
Water % ASTM D6304 >0.1 0.006 0.007 0.011 ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 660 Particles >14µm ASTM D7647 >80 660 Particles >21µm ASTM D7647 >20 4 58 Particles >38µm ASTM D7647 >4 0 00 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/15 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		1	4	0
ppm Water ppm ASTM D6304 >1000 69.7 71.6 117.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 4 169 Particles >21µm ASTM D7647 >20 4 58 Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) /17/13 4 18/17/15 FLUID DEGRADATION method limit/base current history1 history2					-		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 ▲ 169 Particles >21µm ASTM D7647 >20 ▲ 58 Particles >21µm ASTM D7647 >20 ▲ 58 Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/15 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.1	0.006	0.007	0.011
Particles >4µm ASTM D7647 2316 Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 610 Particles >14µm ASTM D7647 >80 ▲ 169 Particles >21µm ASTM D7647 >20 ▲ 58 Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/15 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>1000	69.7	71.6	117.7
Particles >6µm ASTM D7647 >1300 660 Particles >14µm ASTM D7647 >80 ▲ 169 Particles >21µm ASTM D7647 >20 ▲ 58 Particles >21µm ASTM D7647 >20 ▲ 58 Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/15 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >80 ▲ 169 Particles >21μm ASTM D7647 >20 ▲ 58 Particles >38μm ASTM D7647 >4 4 Particles >38μm ASTM D7647 >3 4 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/15 FLUID DEGRADATION method limit/base current history1 history2							
Particles >21µm ASTM D7647 >20 ▲ 58 Particles >38µm ASTM D7647 >4 4 Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/15 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>1300			
Particles >38µm ASTM D7647 >4 4 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/15 FLUID DEGRADATION method limit/base current history1 history2							
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/15 FLUID DEGRADATION method limit/base current history1 history2				>20			
Oil Cleanliness ISO 4406 (c) >/17/13							
FLUID DEGRADATION method limit/base current history1 history2							
	Oil Cleanliness		ISO 4406 (c)	>/17/13			▲ 18/17/15
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.40 0.38 0.47	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.40	0.38	0.47



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	A MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.4	44.4	50.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color Bottom						
GRAPHS						
Ferrous Alloys						
s f iron s f chromium nickel 22 22 22 22 22 22 22 22 22 2	Jan 11/23		Sep 15/23			
Non-ferrous Metal	s					
copper 						
May31/22	Jan 11/23		Sep 15/23			



 Unique Number
 : 10698548
 Diagnostician
 : Jonathan Hester

 Certificate 12367
 Test Package
 : IND 2 (Additional Tests: KF, PrtCount)
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 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)

Jan11/23

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

Received

Diagnosed

(2°0€) (2°0€) (2°0€)

35

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Laboratory Sample No.

Lab Number

45 Ba

Mav31/22

40 Abnorma

: KCP40089D

: 05981253

Contact/Location: Service Manager - GLEARC

1/23

Jan 1

Acid Number

(B) 0.50 HOX 0.40

Ē 0.30

ළි 0.20

0.10 Acid Nur 0.00

May31

Sep15/23 -

: 17 Oct 2023

: 19 Oct 2023

Sep

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F: