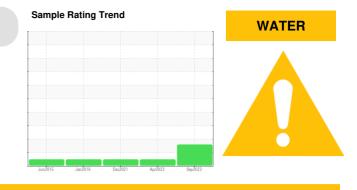
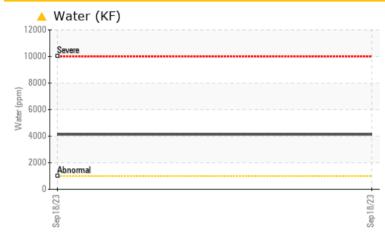


PROBLEM SUMMARY

Area JBS-IR-46 Machine Id INGERSOLL RAND F37027U99287 - SAIA BURGESS Component Compressor



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION	NORMAL	NORMAL	
Water	%	ASTM D6304	>0.1	A 0.413			
ppm Water	ppm	ASTM D6304	>1000	4130			
Emulsified Water	scalar	*Visual	>0.1	 0.2%	NEG	NEG	

Customer Id: UCJOHNAS Sample No.: UCH05960723 Lab Number: 05960723 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



12 Apr 2023 Diag: Angela Borella

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

21 Dec 2021 Diag: Doug Bogart





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

05 Jan 2016 Diag: Doug Bogart





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area JBS-IR-46 Machine Id INGERSOLL RAND F37027U99287 - SAIA BURGESS Component

Compressor

DIAGNOSIS

A Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

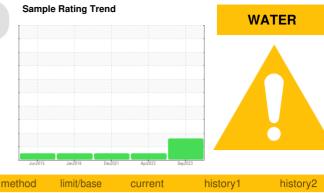
All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

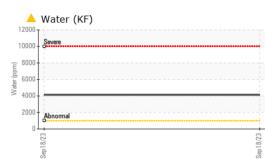
The AN level is acceptable for this fluid.

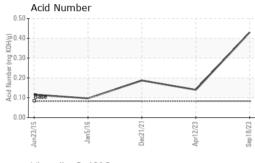


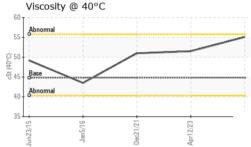
•	SAMPLE INFORM	VIATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 81714 79307 71607 Oil Age hrs Client Info 5483 3076 2073 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Client Info N/A N/A N/A N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185n >50 0 9 <1 Chromium ppm ASTM D5185n >50 0 0 0 Nickel ppm ASTM D5185n >50 0 0 0 Silver ppm ASTM D5185n >25 0 0 0 Lead ppm ASTM D5185n >50 <1 0 1 1 Aurinnum ppm ASTM D5185n >50 <1 0 0 1 Aurinnum ppm ASTM D5185n >50 <1<	Sample Number		Client Info		UCH05960723	UCH05824169	UCH05433658
Oil Age hrs Client Info 5483 3076 2073 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 9 <1 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m <1 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 0 Tin ppm ASTM D5185m >15 <1 0 <1 0 0 Cadmium ppm ASTM D5185m >15 <1 0 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>18 Sep 2023</th> <th>12 Apr 2023</th> <th>21 Dec 2021</th>	Sample Date		Client Info		18 Sep 2023	12 Apr 2023	21 Dec 2021
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 D5185m >50 0 9 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m <11 0 0 0 Nickel ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Cadmium ppm ASTM D5185m 0 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 383	Machine Age	hrs	Client Info		81714	79307	71607
Sample Status Image Image ATTENTION NORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 9 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 <1 0 <1 Antimony ppm ASTM D5185m >55 <1 0 <1 Vanadium ppm ASTM D5185m >55 <1 0 0 <1 Vanadium ppm ASTM D5185m 0 <1 0 0 <1 Vanadium ppm ASTM D5185m 0.6	Oil Age	hrs	Client Info		5483	3076	2073
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 9 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m <1 0 0 0 Titanium ppm ASTM D5185m <25 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 0 Copper ppm ASTM D5185m >15 <1 0 0 0 Antimony ppm ASTM D5185m 15 <1 0 0 0 Cadmium ppm ASTM D5185m 0 <1 0 0 0 ADDITVES method limit/base current history1 history2 Boron	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >50 0 9 <1	Sample Status				ATTENTION	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m <1 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >15 <1 0 <1 Antimony ppm ASTM D5185m >15 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDTIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.6 <1 0 0 Magnesium ppm ASTM D5185m 0.3 0 <1 0 <	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m <1 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 0 Lead ppm ASTM D5185m >50 <1	Iron	ppm	ASTM D5185m	>50	0	9	<1
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m \$25 0 0 0 0 Aluminum ppm ASTM D5185m \$25 0 0 0 0 Lead ppm ASTM D5185m \$25 0 0 0 0 Copper ppm ASTM D5185m \$50 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m 0 0 <1 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Silver	ppm	ASTM D5185m		0	0	<1
Copper ppm ASTM D5185m >50 <1 0 <1 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>25	0	0	0
Tin ppm ASTW D5185m >15 <1 0 <1 Antimony ppm ASTW D5185m >15 <1	Lead	ppm	ASTM D5185m	>25	0	0	0
Antimony ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>50	<1	0	<1
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.6 <1 0 0 Barium ppm ASTM D5185m 0.6 <1 0 0 Molybdenum ppm ASTM D5185m 0.6 <1 0 0 Maganese ppm ASTM D5185m 0.3 0 <1 0 1 Calcium ppm ASTM D5185m 0.3 1 2 2 2 Phosphorus ppm ASTM D5185m 0.3 1 2 2 2 Sulfur ppm ASTM D5185m 0.3 1 2 2 2 Sulfur ppm ASTM D5185m 0.3 13 13 15 Sulfur ppm ASTM D5185m	Tin	ppm	ASTM D5185m	>15	<1	0	<1
CadmiumppmASTM D5185m<100ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0.6<1	Antimony	ppm	ASTM D5185m				<1
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0.6<1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0.6 <1 0 0 Barium ppm ASTM D5185m 0 38 370 301 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 <1	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0 38 370 301 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 <1 0 Magnesium ppm ASTM D5185m 0.3 0 <1 0 Calcium ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 233 13 13 15 Zinc ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 <1 Sodium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 <1							
Manganese ppm ASTM D5185m 0.3 0 <1 0 Magnesium ppm ASTM D5185m 0.3 1 0 1 Calcium ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 233 13 13 15 Zinc ppm ASTM D5185m 0 <1 <1 2 Sulfur ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >255 3 2 <1 Sodium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1 0.413 ppm Water ppm ASTM D6304 >1000 4130 FLUID DEGRADATION method limit/base <t< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td>0.6</td><th><1</th><td>0</td><td>0</td></t<>	Boron	ppm	ASTM D5185m	0.6	<1	0	0
Magnesium ppm ASTM D5185m 0 <1 0 1 Calcium ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 233 13 13 15 Zinc ppm ASTM D5185m 0 <1 <1 2 2 Sulfur ppm ASTM D5185m 0 <1 <1 2 2 Sulfur ppm ASTM D5185m 0 <1 <1 2 2 Sulfur ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 <1 Sodium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1 0.413 ppm Water ppm ASTM D6304 >1000 4130 FLUID DEGRADATION metho							
Calcium ppm ASTM D5185m 0.3 1 2 2 Phosphorus ppm ASTM D5185m 233 13 13 15 Zinc ppm ASTM D5185m 0 <1 <1 2 Sulfur ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 <1	Barium	ppm	ASTM D5185m	0	38	370	301
Phosphorus ppm ASTM D5185m 233 13 13 15 Zinc ppm ASTM D5185m 0 <1 <10 2 Sulfur ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 <1 Sodium ppm ASTM D5185m >25 3 2 <1 Sodium ppm ASTM D5185m >20 2 2 3 Water % ASTM D5185m >20 2 2 3 Pom Water ppm ASTM D6304 >0.1 0.413 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 0	38 0	370 0	301 0
Zinc ppm ASTM D5185m 0 <1 <1 2 Sulfur ppm ASTM D5185m 269 345 634 428 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 <1	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3	38 0 0	370 0 <1	301 0 0
SulfurppmASTM D5185m269345634428CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>2532<1	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3 0	38 0 0 <1	370 0 <1 0	301 0 0 1
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>2532<1	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3	38 0 0 <1 1	370 0 <1 0 2 13	301 0 0 1 2
Silicon ppm ASTM D5185m >25 3 2 <1 Sodium ppm ASTM D5185m 60 46 55 Potassium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1 ▲ 0.413 ppm Water ppm ASTM D6304 >1000 ▲ 4130 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3 233	38 0 0 <1 1 13	370 0 <1 0 2 13	301 0 0 1 2 15
Sodium ppm ASTM D5185m 60 46 55 Potassium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1 ▲ 0.413 ppm Water ppm ASTM D6304 >1000 ▲ 4130 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3 233 0	38 0 0 <1 1 13 <1	370 0 <1 0 2 13 <1	301 0 0 1 2 15 2
Potassium ppm ASTM D5185m >20 2 2 3 Water % ASTM D6304 >0.1 0.413 ppm Water ppm ASTM D6304 >1000 4130 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3 233 0 269	38 0 0 <1 1 13 <1 345	370 0 <1 0 2 13 <1 634	301 0 0 1 2 15 2 428
Water % ASTM D6304 >0.1 ▲ 0.413 ppm Water ppm ASTM D6304 >1000 ▲ 4130 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0.3 0.3 233 0 269 limit/base	38 0 0 <1 1 13 <1 345 current	370 0 <1 0 2 13 <1 634 history1	301 0 0 1 2 15 2 428 history2
ppm Water ppm ASTM D6304 >1000 ▲ 4130 FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0.3 0.3 233 0 269 limit/base	38 0 0 <1 1 13 <1 345 current 3	370 0 <1 0 2 13 <1 634 history1 2	301 0 0 1 2 15 2 428 history2 <1
FLUID DEGRADATION method limit/base current history1 history2	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3 233 0 269 limit/base >25	38 0 0 <1 1 13 <1 345 current 3 60 2	370 0 <1 0 2 13 <1 634 history1 2 46	301 0 0 1 2 15 2 428 history2 <1 55
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0.3 0 0.3 233 0 269 limit/base >25 >20	38 0 0 <1 1 13 <1 345 current 3 60 2	370 0 <1 0 2 13 <1 634 history1 2 46 2	301 0 0 1 2 15 2 428 428 history2 <1 55 3
Acid Number (AN) mg KOH/g ASTM D8045 0.083 0.43 0.14 0.187	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0.3 0.3 233 0 269 limit/base >25 >20 >20	38 0 0 <1 1 13 <1 345 current 3 60 2 2 ▲ 0.413	370 0 <1 0 2 13 <1 634 history1 2 46 2 	301 0 0 1 2 15 2 428 history2 <1 55 3
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304	0 0 0.3 0 0.3 233 0 269 limit/base >25 >20 >0.1 >1000	38 0 0 <1 1 13 <1 345 current 3 60 2 ▲ 0.413 ▲ 4130	370 0 <1 0 2 13 <1 634 history1 2 46 2 	301 0 0 1 2 15 2 428 history2 <1 55 3



OIL ANALYSIS REPORT





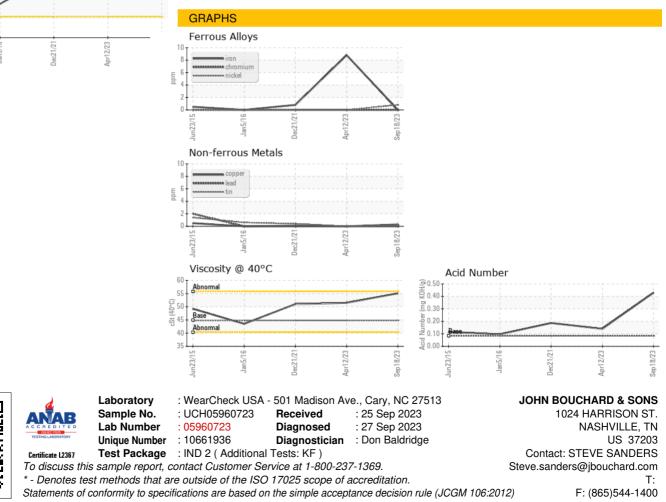


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	6.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.81	55.1	51.5	51.0
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Ē

Contact/Location: STEVE SANDERS - UCJOHNAS