

## **OIL ANALYSIS REPORT**

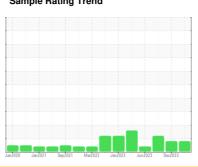
#### Sample Rating Trend

# **SEDIMENT**

# SULLAIR 1 COMP 006 (S/N 09302-004-1-01-13)

**Air Compressor** 

**USPI MAX FG AIR 46 (--- GAL)** 





#### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of visible silt present in the sample.

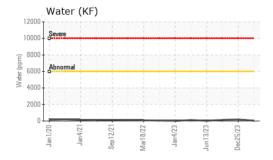
#### **Fluid Condition**

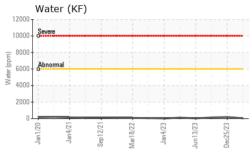
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

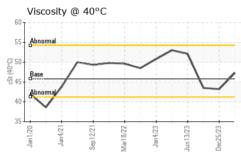
SAMPLE INFORMATION         method         limit/base         current         history1         history2           Sample Date         Client Info         USPM23487         USPM31618         USPM29796           Amachine Age         hrs         Client Info         49605         0         0           Oil Changed         Client Info         49605         0         0         0           Oil Changed         Client Info         Changed         N/A         N/A         N/A           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >50         0         0         0           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >50         0         0         0           Chromium         ppm         ASTM 05185m         >4         0         0         0           Iron         ppm         ASTM 05185m         >10         0         0         0           Alluminum         ppm         ASTM 05185m         >10         0         0         0			Jan 2020 J	an2021 Sep2021 Ma	2022 Jan2023 Jun2023	Dec2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age   hrs   Client Info   Q	Sample Number		Client Info		USPM23487	USPM31618	USPM29796
Oil Age         hrs         Client Info         0         0         0           Oil Changed Sample Status         Client Info         Changed ABNORMAL         N/A         N/A           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         0         0           Chromium         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >5         0         0         0           Tin         ppm         ASTM D5185m         0         0         0         0	Sample Date		Client Info		20 Mar 2024	25 Dec 2023	27 Sep 2023
Oil Changed Sample Status         Client Info         Changed ABNORMAL ABNORMAL ABNORMAL ATTENTION         N/A ABNORMAL ABNORMAL ATTENTION           WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         0         0           Okchel         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Silver         ppm         ASTM D5185m         >10         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         1           Lead         ppm         ASTM D5185m         >20         0         0         0           Copper         ppm         ASTM D5185m         >5         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limil/base         current         histor	Machine Age	hrs	Client Info		49605	0	0
Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         0         0           Chromium         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >10         0         0         0           Aluminum         ppm         ASTM D5185m         >20         0         0         0           Lead         ppm         ASTM D5185m         >20         0         0         0           Copper         ppm         ASTM D5185m         >20         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0 <td>Oil Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         0         0           Ochromium         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >40         0         0         0           Tin         ppm         ASTM D5185m         >0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0     <	Oil Changed		Client Info		Changed	N/A	N/A
Iron	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Chromium         ppm         ASTM D5185m         >4         0         0         0           Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >0         0         0         -1           Lead         ppm         ASTM D5185m         >20         0         0         -1           Lead         ppm         ASTM D5185m         >20         0         0         -1           Lead         ppm         ASTM D5185m         >20         0         0         -1           Lead         ppm         ASTM D5185m         >5         0         0         0         -1           Lead         ppm         ASTM D5185m         0         0         0         0         0         -1           Lead         ppm         ASTM D5185m         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >4         0         0         0           Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >20         0         0         0           Aluminum         ppm         ASTM D5185m         >20         0         0         0           Lead         ppm         ASTM D5185m         >20         0         0         0           Copper         ppm         ASTM D5185m         >40         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDTTVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium   ppm   ASTM D5185m   0	Chromium	ppm	ASTM D5185m	>4	0	0	0
Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         <1	Nickel	ppm	ASTM D5185m	>4	0	0	0
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >40         0         0         <1           Tin         ppm         ASTM D5185m         >5         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0 <td>Aluminum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;10</td> <th>0</th> <td>0</td> <td>&lt;1</td>	Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Tin	Lead	ppm	ASTM D5185m	>20	0	0	0
Vanadium         ppm         ASTM D5185m         0         0         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         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           CONTAMINANTS         method         limit/base         current         history1         history2           Silico	Copper	ppm	ASTM D5185m	>40	0	0	<1
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         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2	Tin	ppm	ASTM D5185m	>5	0	0	0
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         0         0	Vanadium	ppm	ASTM D5185m		0	0	0
Boron   ppm   ASTM D5185m   0   0   0   0   0   0   0   0   0	Cadmium	ppm	ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         -1           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         >25         0         1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         1         <1           Sodium         ppm         ASTM D5185m         >20         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         0	Boron	ppm	ASTM D5185m	0	0	0	0
Manganese         ppm         ASTM D5185m         0         0         <1           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         0         0         1         1           Sodium         ppm         ASTM D5185m         0         0         1         1           Potassium         ppm         ASTM D5185m         20         0         0         0           Water         %         ASTM D6304         >0.6         0.003         0.018         0.013           ppm Water         ppm         ASTM D6304         >6000         39         189         139.3	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         0         1         <1           Sodium         ppm         ASTM D5185m         22         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         0         <1           Potassium         ppm         ASTM D6185m         >20         0         0         <1           Water         %         ASTM D6185m         >20         0         0         0           Water         %         ASTM D6304         >6000         39         189         139.3     <	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium         ppm         ASTM D5185m         0         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >2.5         0         1         <1	Manganese	ppm	ASTM D5185m		0	0	<1
Phosphorus         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         1         <1	Magnesium	ppm	ASTM D5185m	0	0	0	0
Zinc         ppm         ASTM D5185m         0         0         0         0           Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         1         <1           Sodium         ppm         ASTM D5185m         >20         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           Water         %         ASTM D5185m         >20         0         0         0           Water         %         ASTM D5185m         >20         0         0         0           Water         %         ASTM D6304         >0.6         0.003         0.018         0.013           ppm Water         ppm         ASTM D6304         >6000         39         189         139.3           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >320	Calcium	ppm	ASTM D5185m	0	0	0	0
Sulfur         ppm         ASTM D5185m         0         0         27         15           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         1         <1	Phosphorus	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         1         <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon         ppm         ASTM D5185m         >25         0         1         <1           Sodium         ppm         ASTM D5185m         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           Water         %         ASTM D6304         >0.6         0.003         0.018         0.013           ppm Water         ppm         ASTM D6304         >6000         39         189         139.3           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000           15381           Particles >6μm         ASTM D7647         >2500           2858           Particles >14μm         ASTM D7647         >80           52           Particles >21μm         ASTM D7647         >20           4           Particles >71μm         ASTM D7647         >4           0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14	Sulfur	ppm	ASTM D5185m	0	0	27	15
Sodium         ppm         ASTM D5185m         0         0         <1	CONTAMINANTS	3	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         0         0         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           Water         %         ASTM D6304         >0.6         0.003         0.018         0.013           ppm Water         ppm         ASTM D6304         >6000         39         189         139.3           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000           15381           Particles >6μm         ASTM D7647         >2500           2858           Particles >14μm         ASTM D7647         >320           151           Particles >21μm         ASTM D7647         >80           52           Particles >38μm         ASTM D7647         >4           0           Particles >71μm         ASTM D7647         >4           0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          0         21/19/14	Silicon	ppm	ASTM D5185m	>25	0	1	<1
Water         %         ASTM D6304         >0.6         0.003         0.018         0.013           ppm Water         ppm         ASTM D6304         >6000         39         189         139.3           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000           15381           Particles >6μm         ASTM D7647         >2500           2858           Particles >14μm         ASTM D7647         >320           151           Particles >21μm         ASTM D7647         >80           52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sodium	ppm	ASTM D5185m		0	0	<1
ppm Water         ppm         ASTM D6304         >6000         39         189         139.3           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000           15381           Particles >6μm         ASTM D7647         >2500           2858           Particles >14μm         ASTM D7647         >320           151           Particles >21μm         ASTM D7647         >80           52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000           15381           Particles >6μm         ASTM D7647         >2500           2858           Particles >14μm         ASTM D7647         >320           151           Particles >21μm         ASTM D7647         >80           52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Water	%	ASTM D6304	>0.6	0.003	0.018	0.013
Particles >4μm       ASTM D7647       >10000         15381         Particles >6μm       ASTM D7647       >2500         2858         Particles >14μm       ASTM D7647       >320         151         Particles >21μm       ASTM D7647       >80         52         Particles >38μm       ASTM D7647       >20        4         Particles >71μm       ASTM D7647       >4        0         Oil Cleanliness       ISO 4406 (c)       >20/18/15        21/19/14         FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>6000	39	189	139.3
Particles >6μm         ASTM D7647         >2500          2858           Particles >14μm         ASTM D7647         >320          151           Particles >21μm         ASTM D7647         >80          52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm         ASTM D7647         >320          151           Particles >21μm         ASTM D7647         >80          52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >4µm		ASTM D7647	>10000			15381
Particles >14μm         ASTM D7647         >320          151           Particles >21μm         ASTM D7647         >80          52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>2500			2858
Particles >21μm         ASTM D7647         >80          52           Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	·		ASTM D7647	>320			151
Particles >38μm         ASTM D7647         >20          4           Particles >71μm         ASTM D7647         >4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15          21/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	· ·		ASTM D7647	>80			52
Particles >71μmASTM D7647>40Oil CleanlinessISO 4406 (c)>20/18/15 $\bigcirc$ 21/19/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2			ASTM D7647	>20			4
Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/14  FLUID DEGRADATION method limit/base current history1 history2	•			>4			0
	•			>20/18/15			21/19/14
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	0.09		



## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLID DDODEDT	TIEC	mothod	limit/booo	ourront	hiotonyl	hiotony?

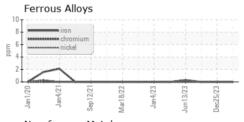
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Visc @ 4	0°C	cSt	ASTM D445	45.8	47.3	43.2	43.5

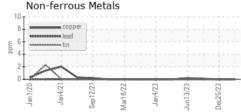
SAMPLE IMAGES	method	limit/base	current	history1	history2
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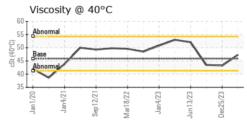
Color

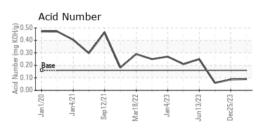


#### **GRAPHS**













Laboratory Sample No.

: USPM23487 Lab Number : 06124327 Unique Number: 10938478

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

**Tested** Diagnosed

: 20 Mar 2024 : 25 Mar 2024

: 25 Mar 2024 - Jonathan Hester

TYSON WARREN - BOSCOS PIZZA CO

25000 GUENTBER RD WARREN, MI US 48091 Contact:

Test Package : IND 2 Certificate L2367 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)

T:

F: