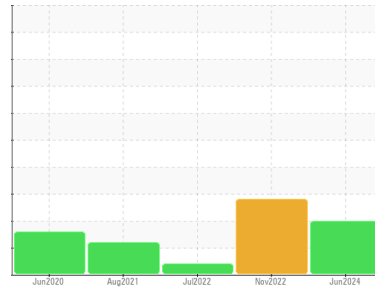




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Machine Id

INGERSOLL RAND KILL 30HP (S/N CBV374171)

Component

Air Compressor

Fluid

USPI 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. There is a trace of moisture present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM37575	USPM24427	USPM22219
Sample Date	Client Info	02 Jun 2024	30 Nov 2022	04 Jul 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	1	<1	<1
Chromium	ppm	ASTM D5185m >4	0	0	<1
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >10	1	0	0
Lead	ppm	ASTM D5185m >20	0	<1	<1
Copper	ppm	ASTM D5185m >40	22	4	9
Tin	ppm	ASTM D5185m >5	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	<1	3
Barium	ppm	ASTM D5185m 0	834	821	868
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m 0	2	2	1
Calcium	ppm	ASTM D5185m 0	4	2	5
Phosphorus	ppm	ASTM D5185m 1	8	28	5
Zinc	ppm	ASTM D5185m 0	300	49	87
Sulfur	ppm	ASTM D5185m 0	489	195	475

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	2	2	<1
Sodium	ppm	ASTM D5185m	20	6	2
Potassium	ppm	ASTM D5185m >20	4	1	1
Water	%	ASTM D6304 >0.2	0.192	0.246	0.320
ppm Water	ppm	ASTM D6304 >2000	1923	2469.9	3207.9

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	---	12269	4375
Particles >6µm	ASTM D7647 >2500	---	978	970
Particles >14µm	ASTM D7647 >320	---	13	61
Particles >21µm	ASTM D7647 >80	---	4	15
Particles >38µm	ASTM D7647 >20	---	1	1
Particles >71µm	ASTM D7647 >4	---	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	---	21/17/11	19/17/13

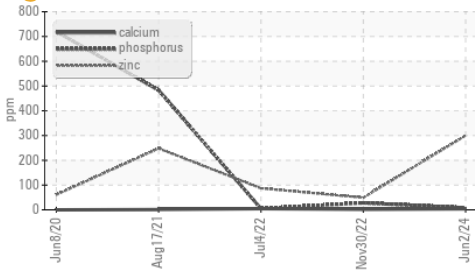
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	0.67	0.17	0.327

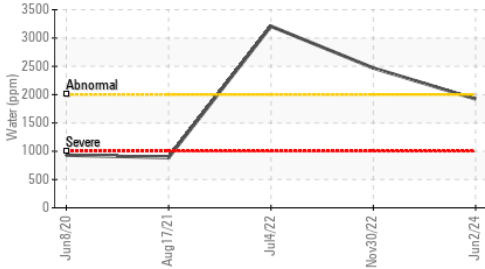


OIL ANALYSIS REPORT

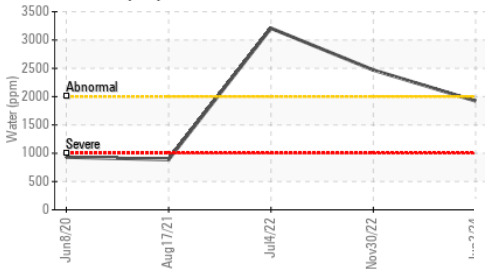
Additives



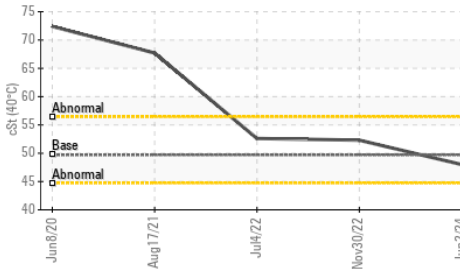
Water (KF)



Water (KF)



Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	49.7	48.0	52.3	52.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

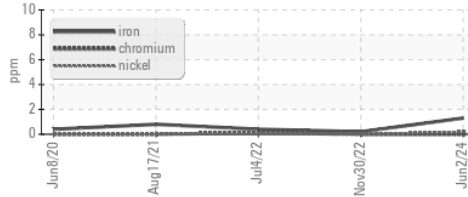


Bottom

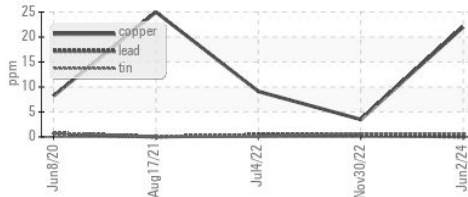


GRAPHS

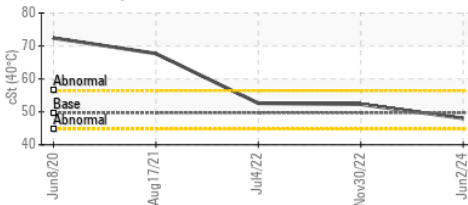
Ferrous Alloys



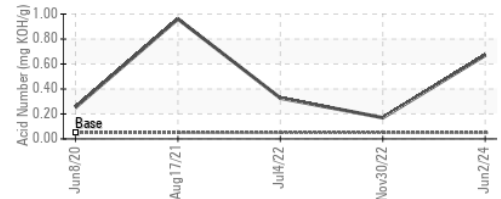
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM37575
Lab Number : 06204672
Unique Number : 11072133
Test Package : IND 2

Received : 10 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Doug Bogart

SEABOARD FOODS

2700 ne 28th street
 GUYMON, OK
 US 73942
 Contact: SERGIO CARLOS

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: (580)338-9613

F: