



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area  
**INSULATING/INS - LINE 12**  
 Machine Id  
**INSULATOR #12 WIREDRAW GBX (S/N 10.120.31)**  
 Component  
**Gearbox**  
 Fluid  
**JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (12 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IB0000335</b>	IB0000352	IB0000261
Sample Date		Client Info		<b>27 Jun 2024</b>	13 Nov 2023	23 Aug 2022
Machine Age	hrs	Client Info		<b>145702</b>	143234	140961
Oil Age	hrs	Client Info		<b>74769</b>	72301	70028
Filter Age	hrs	Client Info		<b>637</b>	1723	2438
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>2</b>	4	5
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	1	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>2</b>	4	4
Tin	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

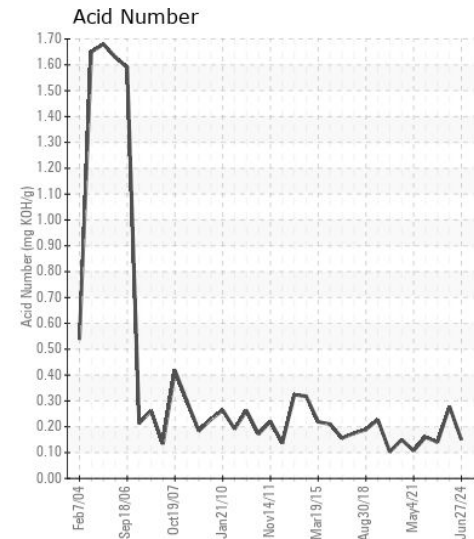
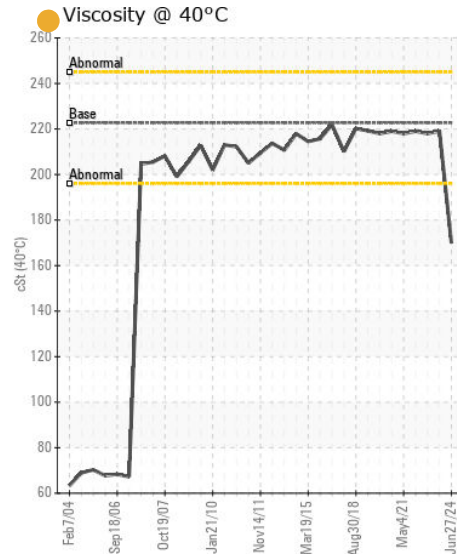
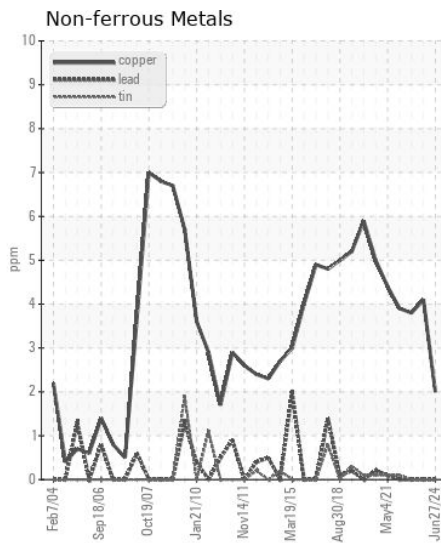
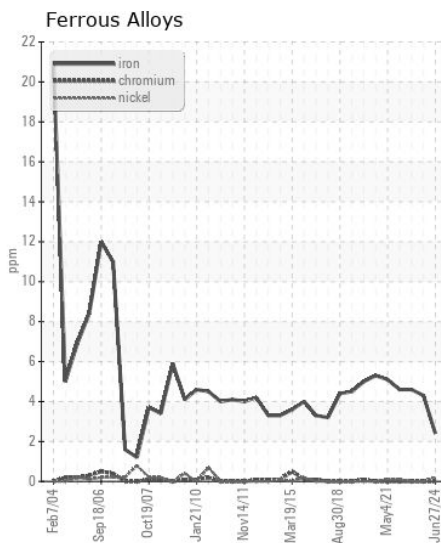
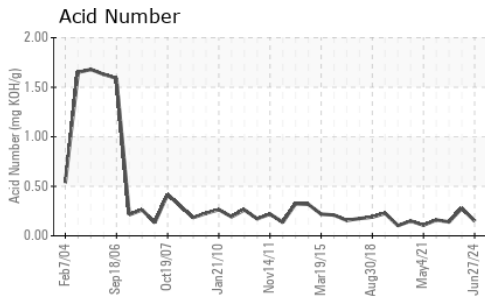
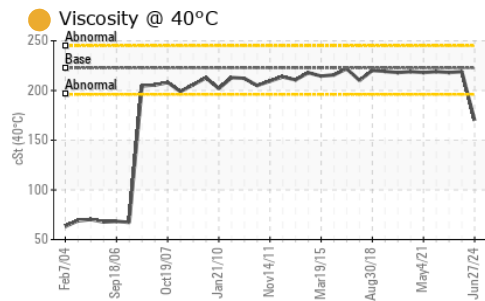
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>22</b>	23	23
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	6	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m		<b>525</b>	583	507
Zinc	ppm	ASTM D5185m		<b>8</b>	8	13
Sulfur	ppm	ASTM D5185m		<b>1559</b>	1513	1289
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.15</b>	0.278	0.14
Visc @ 40°C	cSt	ASTM D445	222.7	<b>170</b>	219	218



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IB0000335  
**Lab Number** : 06226406  
**Unique Number** : 11109899  
**Test Package** : IND 2  
**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Don Baldrige

**SUPERIOR TELECOMMUNICATIONS INC**  
 75 EAST STATE RD 4  
 HOISINGTON, KS  
 US 67544  
 Contact: BRIAN STEJSKAL  
 JON.FAZENBAKER@WEARCHECK.COM; brian.stejskal@spsx.com  
 T: (620)653-1957  
 F: (620)653-1956

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)