



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		IB0000352	IB0000261	IB0000237
Sample Date		Client Info		13 Nov 2023	23 Aug 2022	27 Apr 2022
Machine Age	hrs	Client Info		143234	140961	138988
Oil Age	hrs	Client Info		72301	70028	68055
Filter Age	hrs	Client Info		1723	2438	465
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

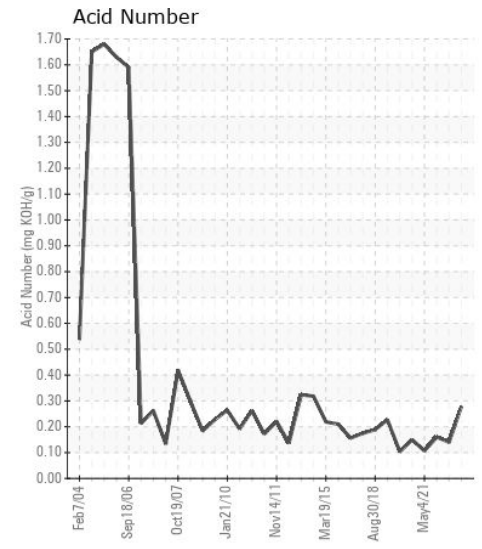
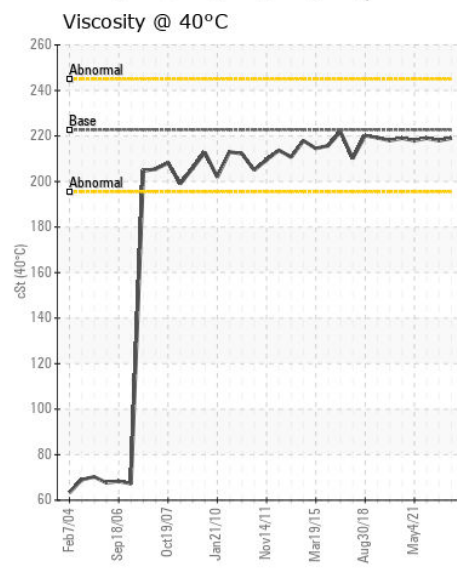
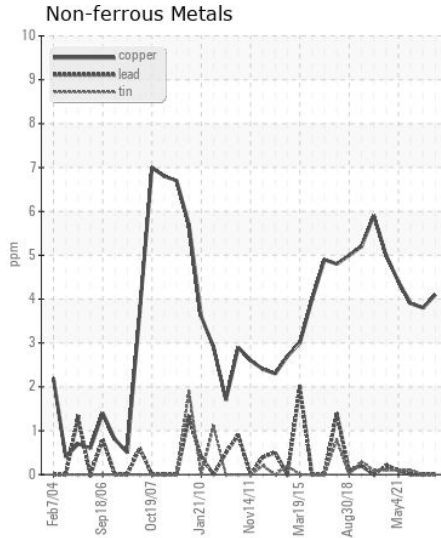
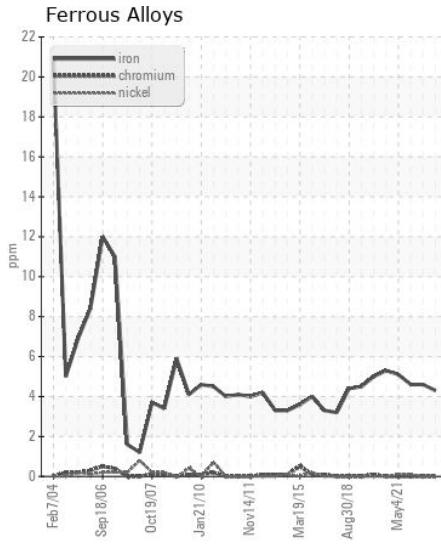
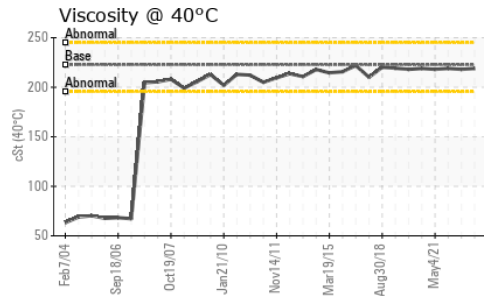
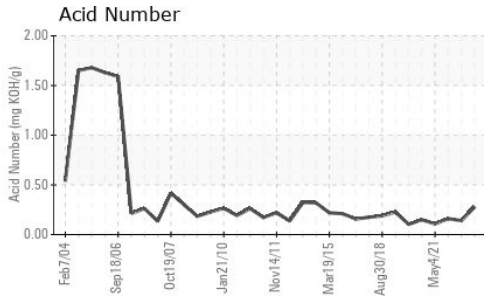
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	23	23	21
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		6	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		583	507	561
Zinc	ppm	ASTM D5185m		8	13	14
Sulfur	ppm	ASTM D5185m		1513	1289	1219
Acid Number (AN)	mg KOH/g	ASTM D8045		0.278	0.14	0.16
Visc @ 40°C	cSt	ASTM D445	222.7	219	218	219



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IB0000352
Lab Number : 06009127
Unique Number : 10742889
Test Package : IND 2
Received : 15 Nov 2023
Tested : 16 Nov 2023
Diagnosed : 16 Nov 2023 - Wes Davis

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)