



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
INSULATING/INS - LINE 4
Machine Id
INSULATOR #4 WIREDRAW GBX (S/N 10.120.41)
Component
Gearbox
Fluid
JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Hour meter replaced since last oil change)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IB0000319	IB0000315	IB0000255
Sample Date		Client Info		23 May 2023	17 Apr 2023	14 Sep 2022
Machine Age	hrs	Client Info		75095	74675	71905
Oil Age	hrs	Client Info		94950	94530	91760
Filter Age	hrs	Client Info		408	4410	1620
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	2	3	1
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	1
Lead	ppm	ASTM D5185m	>100	1	0	0
Copper	ppm	ASTM D5185m	>200	11	10	9
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

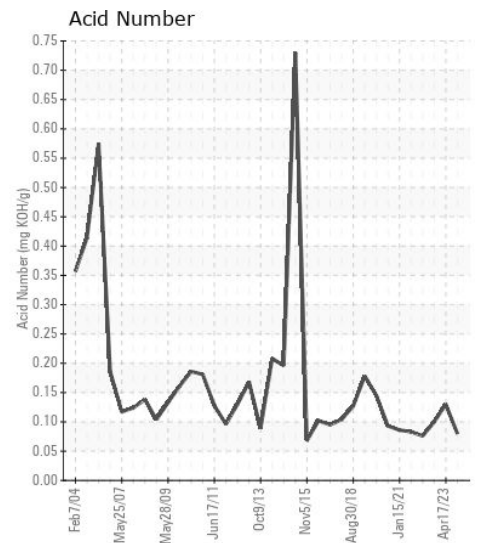
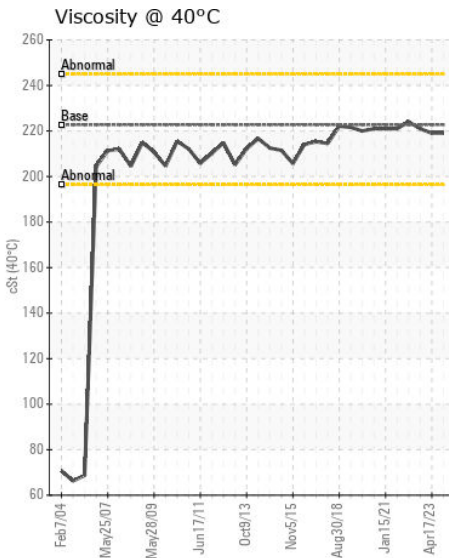
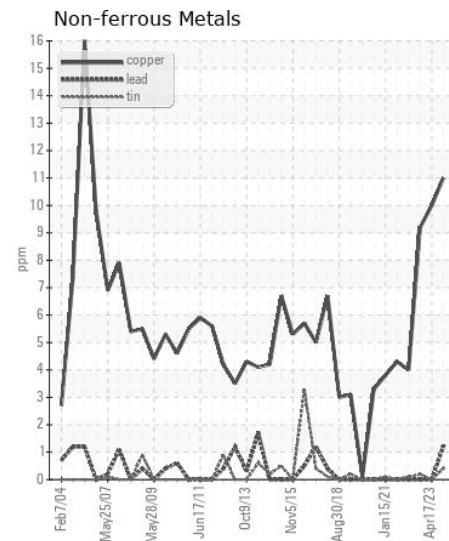
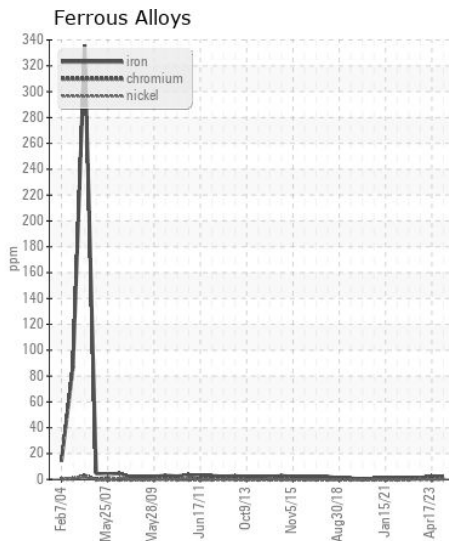
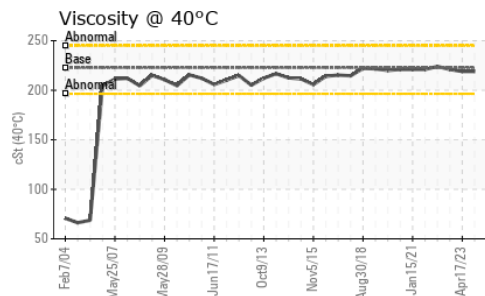
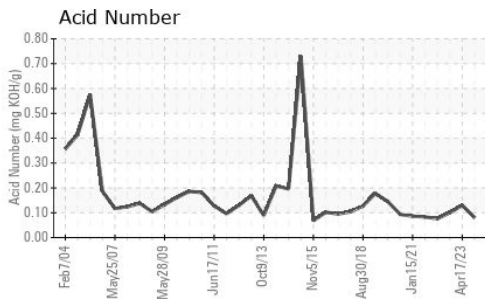
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	43	45	43
Potassium	ppm	ASTM D5185m	>20	4	2	<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		4	2	<1
Boron	ppm	ASTM D5185m		2	2	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	5	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		491	474	487
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m		1142	1227	1315
Acid Number (AN)	mg KOH/g	ASTM D8045		0.08	0.13	0.10
Visc @ 40°C	cSt	ASTM D445	222.7	219	219	221



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IB0000319
Lab Number : 05858156
Unique Number : 10492621
Test Package : IND 2

Received : 26 May 2023
Tested : 30 May 2023
Diagnosed : 30 May 2023 - 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

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)

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