



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
INSULATING/INS - LINE 16
Machine Id
INSULATOR #16 EXTRUDER GBX (S/N 0023319-1-1)
Component
Gearbox
Fluid
JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (3 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		IB0000360	IB0000268	IB0000220
Sample Date		Client Info		11 Oct 2023	31 Oct 2022	13 May 2022
Machine Age	hrs	Client Info		49610	46851	44376
Oil Age	hrs	Client Info		58868	33791	31316
Filter Age	hrs	Client Info		1631	0	438
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	1	1	2
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	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	1	<1	<1
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

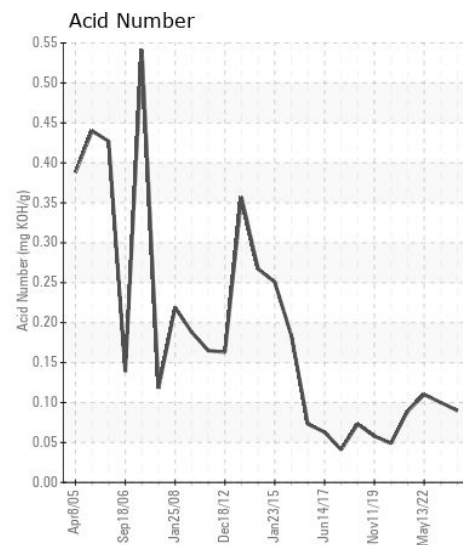
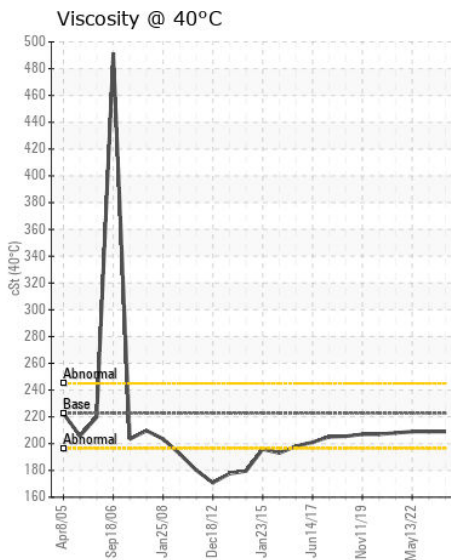
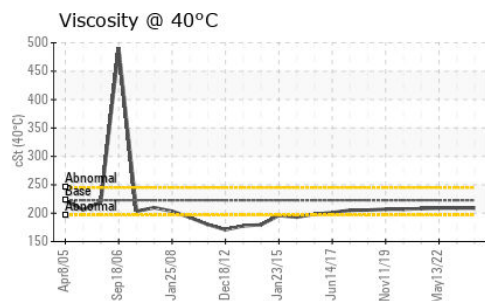
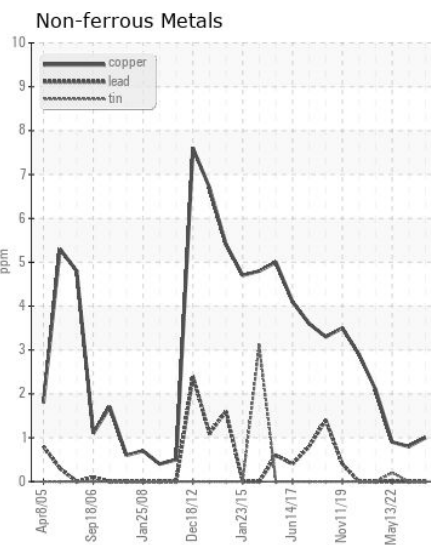
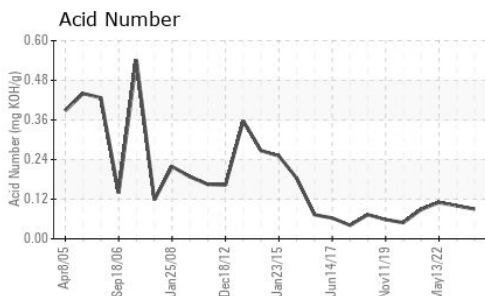
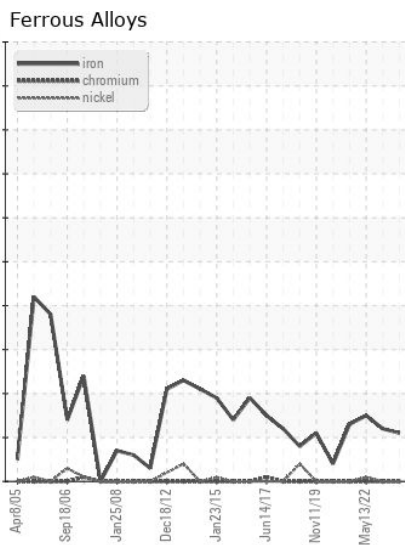
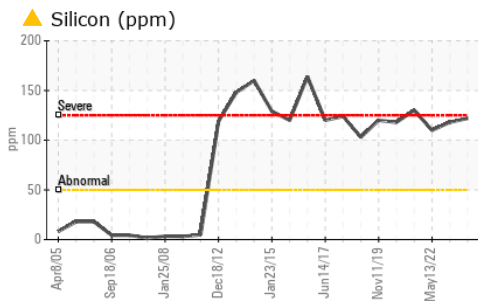
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>50	▲ 122	▲ 118	▲ 110
Potassium	ppm	ASTM D5185m	>20	0	0	0
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	<1	0
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		370	465	425
Zinc	ppm	ASTM D5185m		0	2	1
Sulfur	ppm	ASTM D5185m		1093	1626	1213
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.10	0.11
Visc @ 40°C	cSt	ASTM D445	222.7	209	209	209



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IB0000360
Lab Number : 05979875
Unique Number : 10697170
Test Package : IND 2

Received : 16 Oct 2023
Tested : 18 Oct 2023
Diagnosed : 18 Oct 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)

T: (620)653-1957
 F: (620)653-1956