



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**SIERRA 71SSLX 27322**  
 Component  
**Hydraulic System**  
 Fluid  
**SUNOCO SUNVIS 846 ISO 46 (660 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PH0002350	---	---
Sample Date		Client Info		17 Jun 2024	---	---
Machine Age	hrs	Client Info		5586	---	---
Oil Age	hrs	Client Info		5586	---	---
Filter Age	hrs	Client Info		1451	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<1	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>20	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	0	---	---
Lead	ppm	ASTM D5185m	>20	0	---	---
Copper	ppm	ASTM D5185m	>20	18	---	---
Tin	ppm	ASTM D5185m	>20	1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

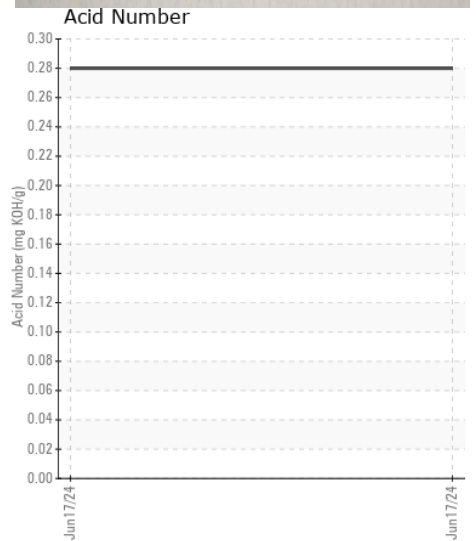
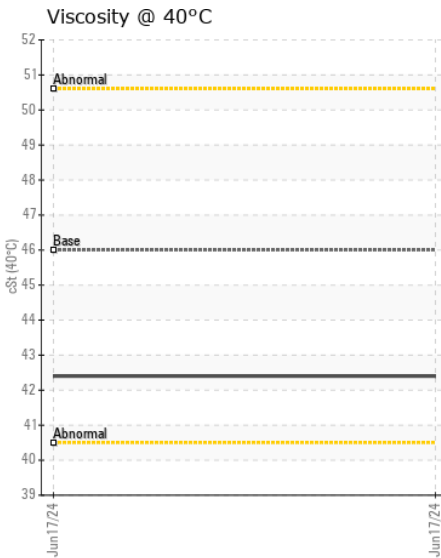
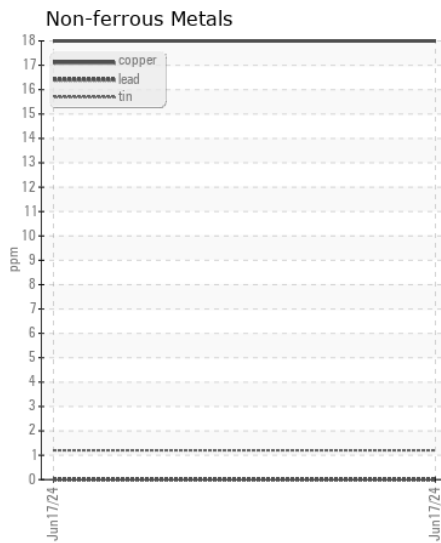
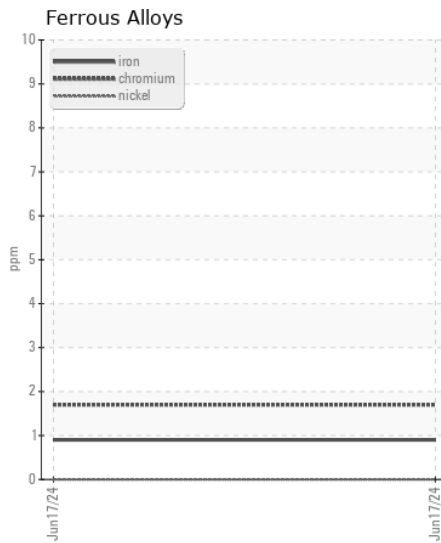
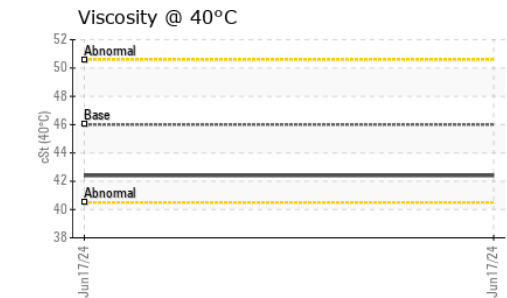
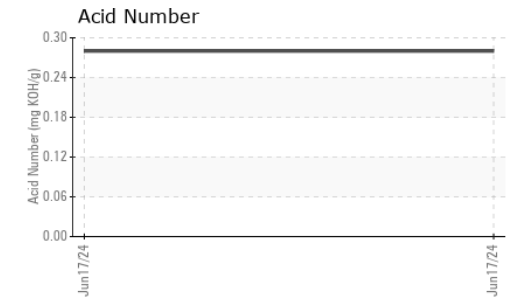
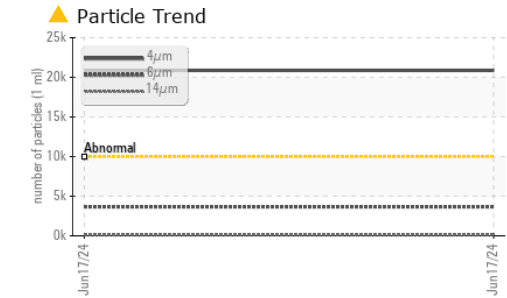
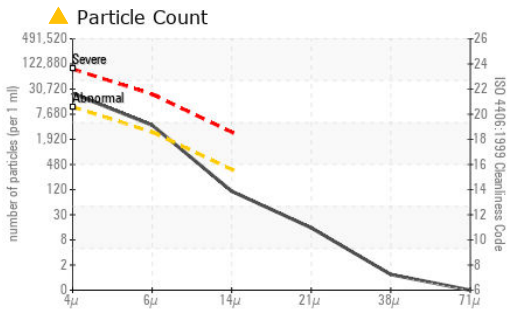
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	2	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water		WC Method	>0.05	NEG	---	---
Particles >4µm		ASTM D7647	>10000	▲ 20872	---	---
Particles >6µm		ASTM D7647	>2500	● 3663	---	---
Particles >14µm		ASTM D7647	>320	97	---	---
Particles >21µm		ASTM D7647	>80	13	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 22/19/14	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	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		2	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		3	---	---
Calcium	ppm	ASTM D5185m		71	---	---
Phosphorus	ppm	ASTM D5185m		366	---	---
Zinc	ppm	ASTM D5185m		462	---	---
Sulfur	ppm	ASTM D5185m		4158	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	---	---
Visc @ 40°C	cSt	ASTM D445	46.0	42.4	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH0002350 **Received** : 20 Jun 2024  
**Lab Number** : 06216294 **Tested** : 24 Jun 2024  
**Unique Number** : 11089158 **Diagnosed** : 24 Jun 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

**NJC SCRAP METAL**  
 34 MOFFITT BLVD  
 BAY SHORE, NY  
 US 11706  
 Contact: Service Manager

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:  
F: