



PROBLEM SUMMARY

Sample Rating Trend

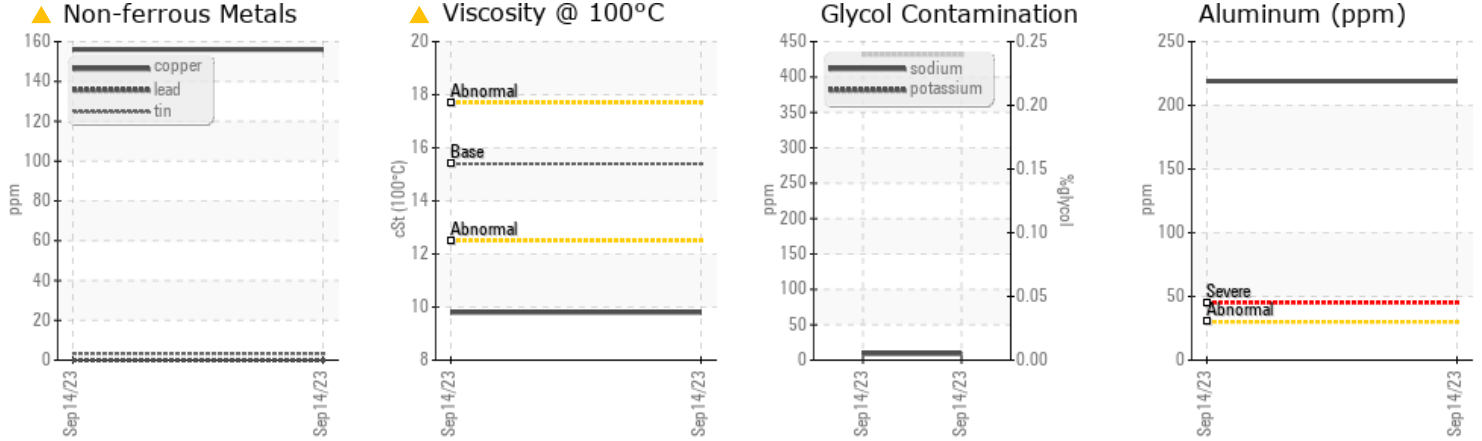


WEAR



Area
SCHTRUCK
 Machine Id
6399 [SCHTRUCK]
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	Value	Limit	Result
Copper	ppm	ASTM D5185m >30	ABNORMAL ▲ 156
Visc @ 100°C	cSt	ASTM D445 15.4	▲ 9.8

Customer Id: SCHPLA
 Sample No.: SBP0005620
 Lab Number: 05958972
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
SCHTRUCK
Machine Id
6399 [SCHTRUCK]

Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (10 GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	SBP0005620	---	---
Sample Date	Client Info	14 Sep 2023	---	---
Machine Age	hrs Client Info	41381	---	---
Oil Age	hrs Client Info	41381	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	130	---	---
Chromium ppm	ASTM D5185m >20	6	---	---
Nickel ppm	ASTM D5185m >2	<1	---	---
Titanium ppm	ASTM D5185m >2	<1	---	---
Silver ppm	ASTM D5185m >2	<1	---	---
Aluminum ppm	ASTM D5185m >30	219	---	---
Lead ppm	ASTM D5185m >30	0	---	---
Copper ppm	ASTM D5185m >30	▲ 156	---	---
Tin ppm	ASTM D5185m >15	3	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	30	---	---
Barium ppm	ASTM D5185m 0	0	---	---
Molybdenum ppm	ASTM D5185m 60	42	---	---
Manganese ppm	ASTM D5185m 0	6	---	---
Magnesium ppm	ASTM D5185m 1010	556	---	---
Calcium ppm	ASTM D5185m 1070	1806	---	---
Phosphorus ppm	ASTM D5185m 1150	702	---	---
Zinc ppm	ASTM D5185m 1270	874	---	---
Sulfur ppm	ASTM D5185m 2060	2148	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >30	11	---	---
Sodium ppm	ASTM D5185m	9	---	---
Potassium ppm	ASTM D5185m >20	432	---	---
Fuel %	ASTM D3524 >3.0	0.2	---	---

INFRA-RED

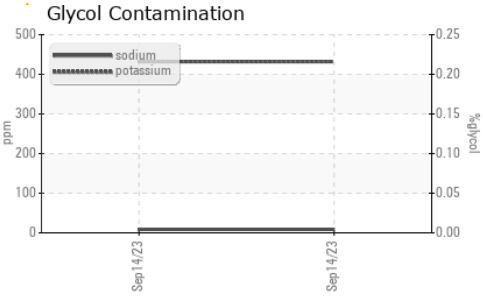
method	limit/base	current	history1	history2
Soot %	*ASTM D7844 >3	0.5	---	---
Nitration	Abs/cm *ASTM D7624 >20	11.4	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	23.6	---	---

FLUID DEGRADATION

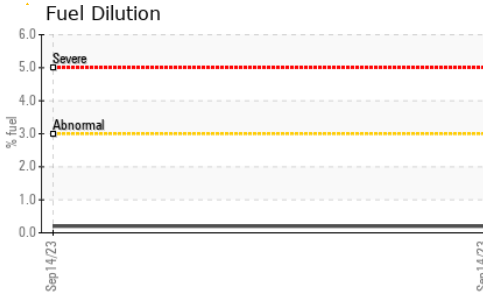
method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	27.1	---	---
Base Number (BN)	mg KOH/g ASTM D2896 9.8	6.4	---	---



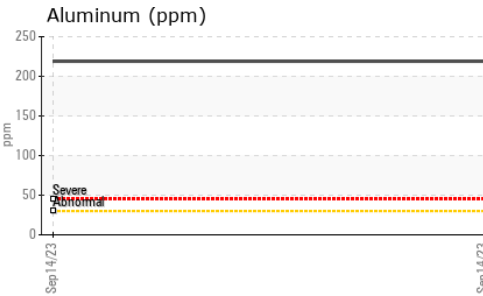
OIL ANALYSIS REPORT



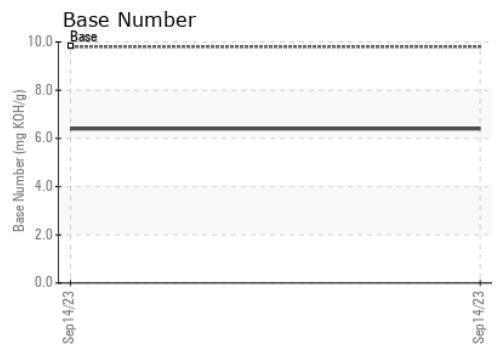
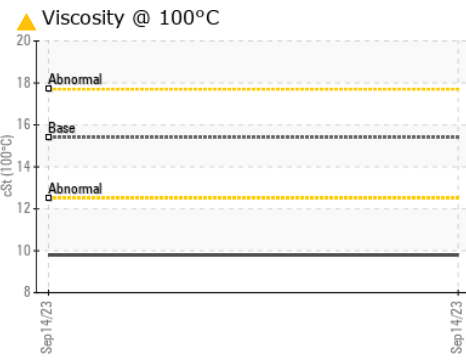
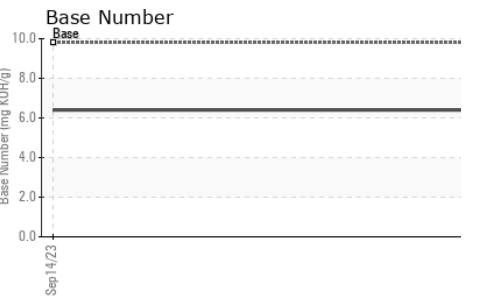
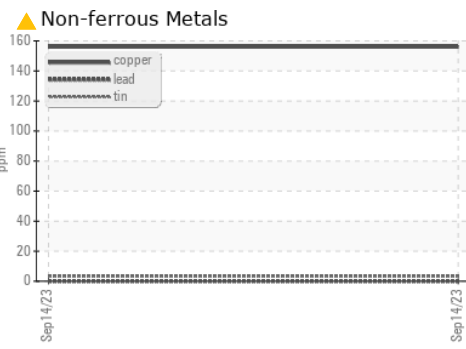
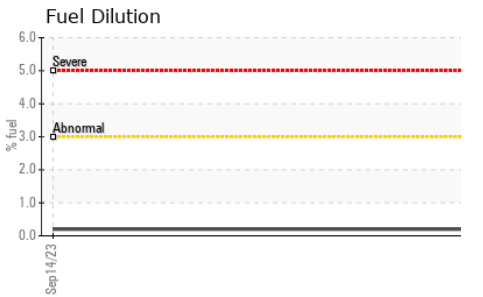
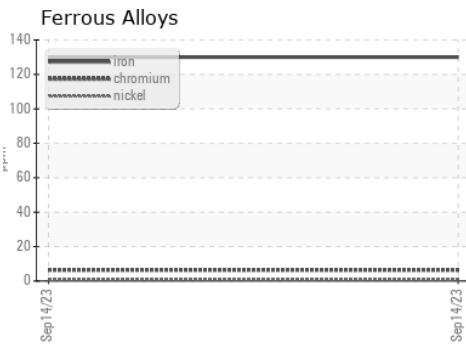
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 9.8	---



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005620 **Received** : 22 Sep 2023
Lab Number : 05958972 **Diagnosed** : 26 Sep 2023
Unique Number : 10660185 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

SCHMIDT TRANSPORTATION - 605449
 108 E Bay Road
 Plattsmouth, NE
 US 68048
 Contact: NICK DOTY
 doty@liquidtrucking.com
 T: (402)949-9398
 F:

Certificate L2367
 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)