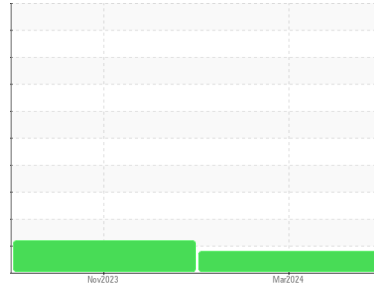




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
SCHTRUCK
 Machine Id
6502 [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 has decreased, but is still 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

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0007016	SBP0006009	---
Sample Date	Client Info		29 Mar 2024	29 Nov 2023	---
Machine Age	hrs	Client Info	73798	37267	---
Oil Age	hrs	Client Info	36531	37267	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	0.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	59	85	---
Chromium	ppm	ASTM D5185m >20	3	6	---
Nickel	ppm	ASTM D5185m >2	0	2	---
Titanium	ppm	ASTM D5185m >2	0	0	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >30	15	39	---
Lead	ppm	ASTM D5185m >30	0	7	---
Copper	ppm	ASTM D5185m >30	▲ 55	▲ 325	---
Tin	ppm	ASTM D5185m >15	<1	3	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	2	20	---
Barium	ppm	ASTM D5185m 0	0	1	---
Molybdenum	ppm	ASTM D5185m 60	60	38	---
Manganese	ppm	ASTM D5185m 0	1	4	---
Magnesium	ppm	ASTM D5185m 1010	987	525	---
Calcium	ppm	ASTM D5185m 1070	1343	1717	---
Phosphorus	ppm	ASTM D5185m 1150	986	677	---
Zinc	ppm	ASTM D5185m 1270	1242	886	---
Sulfur	ppm	ASTM D5185m 2060	2555	1444	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	6	9	---
Sodium	ppm	ASTM D5185m	3	6	---
Potassium	ppm	ASTM D5185m >20	36	107	---

INFRA-RED

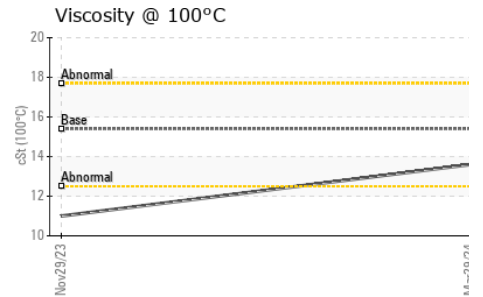
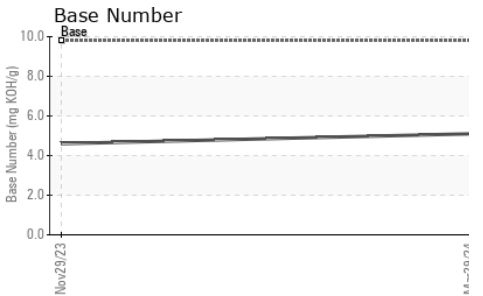
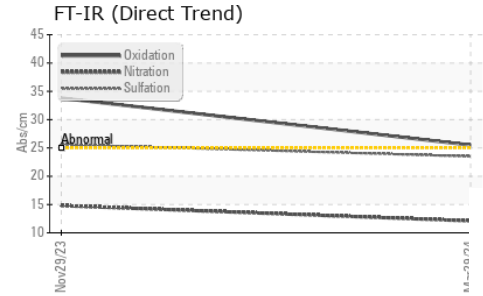
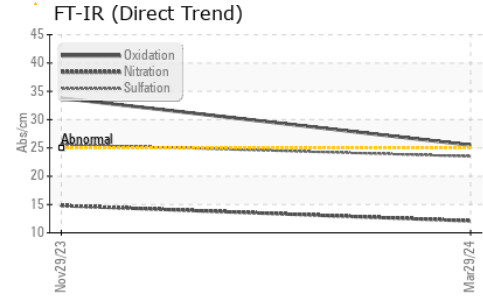
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.7	---
Nitration	Abs/cm	*ASTM D7624 >20	12.1	14.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.5	25.6	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	25.5	33.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	5.1	4.6	---



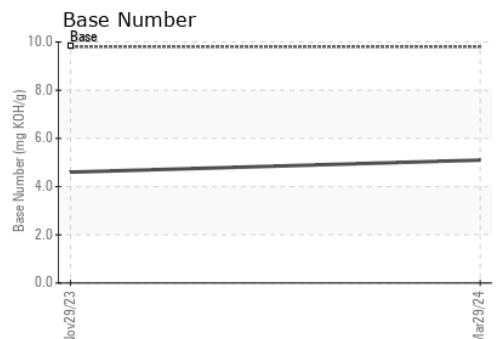
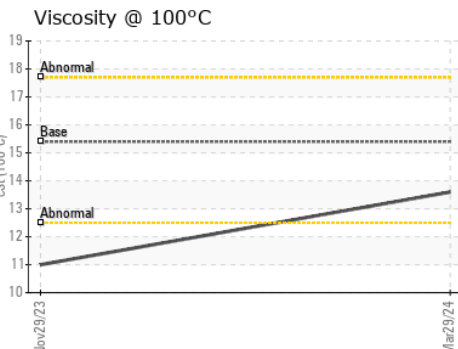
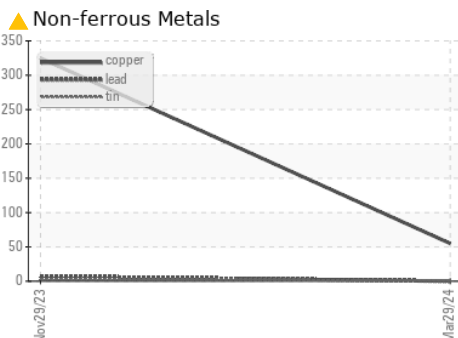
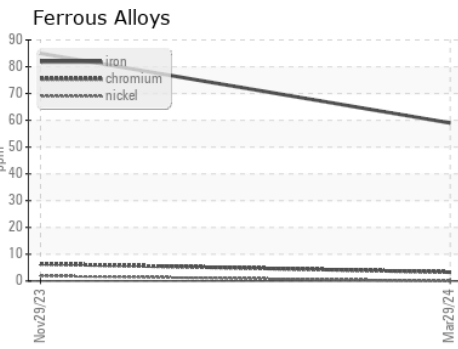
OIL ANALYSIS REPORT



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	13.6	11.0	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007016 **Received** : 01 Apr 2024
Lab Number : **06135551** **Tested** : 02 Apr 2024
Unique Number : 10955016 **Diagnosed** : 04 Apr 2024 - Sean Felton
Test Package : FLEET

SCHMIDT TRANSPORTATION - 605449
 108 E Bay Road
 Plattsmouth, NE
 US 68048
 Contact: CASEY WILKIE
 casey@liquidtrucking.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)