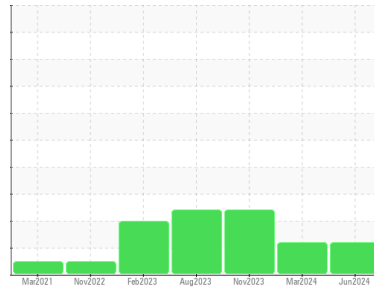




OIL ANALYSIS REPORT

Area
SCHTRUCK
 Machine Id
6328 [SCHTRUCK]
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



FUEL



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0007245	SBP0006999	SBP0006008
Sample Date	Client Info		05 Jun 2024	12 Mar 2024	29 Nov 2023
Machine Age	mls	Client Info	680415	657194	633565
Oil Age	mls	Client Info	23221	23629	21003
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	49	50	65
Chromium	ppm	ASTM D5185m >5	2	2	2
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	2	2	<1
Lead	ppm	ASTM D5185m >30	8	8	10
Copper	ppm	ASTM D5185m >150	2	2	2
Tin	ppm	ASTM D5185m >5	<1	1	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	2	0	0
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 60	59	60	49
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	940	989	870
Calcium	ppm	ASTM D5185m 1070	1099	1109	986
Phosphorus	ppm	ASTM D5185m 1150	997	1106	872
Zinc	ppm	ASTM D5185m 1270	1199	1262	1100
Sulfur	ppm	ASTM D5185m 2060	3281	3344	2321

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	6	3
Sodium	ppm	ASTM D5185m	9	8	8
Potassium	ppm	ASTM D5185m >20	4	3	<1
Fuel	%	ASTM D3524 >5	▲ 6.4	▲ 5.7	▲ 21.4

INFRA-RED

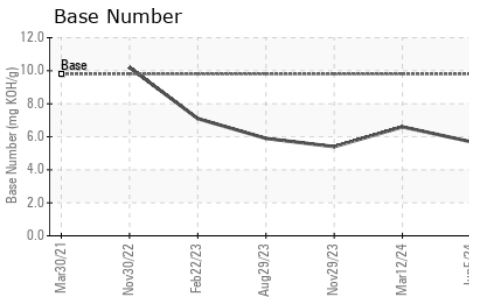
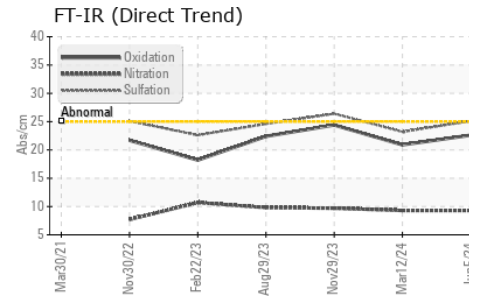
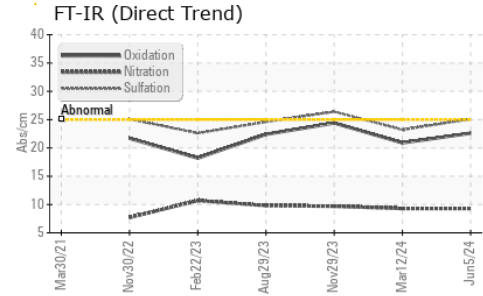
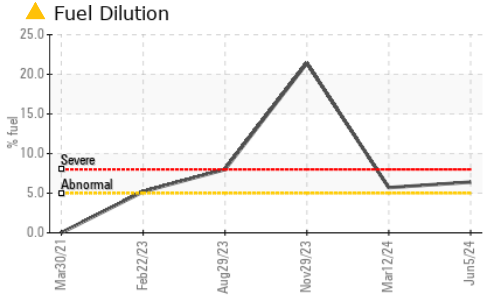
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.1	1.5	2.3
Nitration	Abs/cm	*ASTM D7624 >20	9.3	9.3	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.1	23.2	26.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.6	20.9	24.4
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	5.7	6.6	5.4



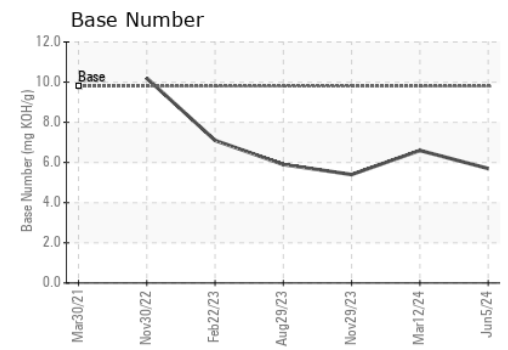
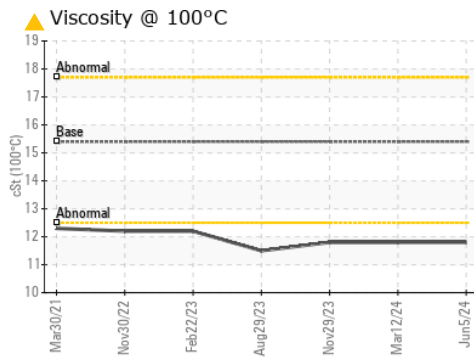
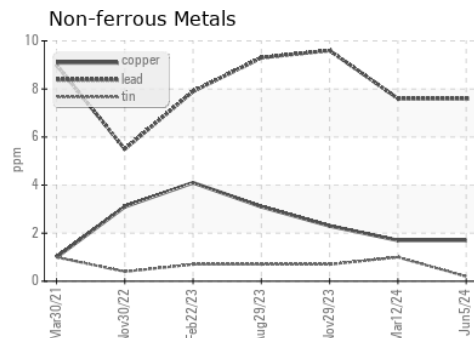
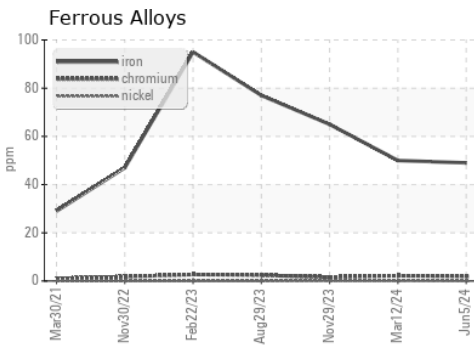
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 11.8	▲ 11.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007245 **Received** : 14 Jun 2024
Lab Number : 06211150 **Tested** : 19 Jun 2024
Unique Number : 11084014 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

SCHMIDT TRANSPORTATION - 605449
 108 E Bay Road
 Plattsmouth, NE
 US 68048
 Contact: NICK DOTY
 doty@liquidtrucking.com
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 F:

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)