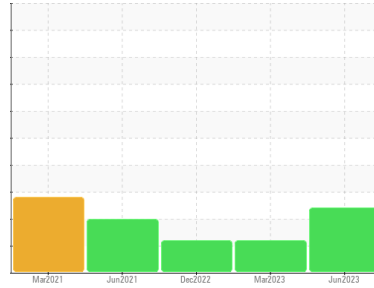




PROBLEM SUMMARY

Sample Rating Trend



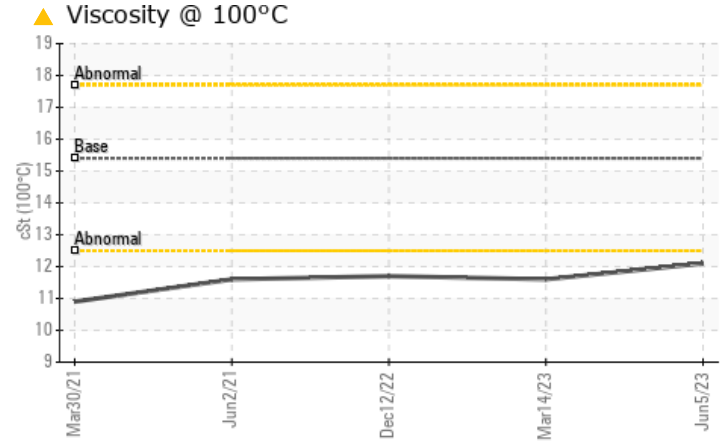
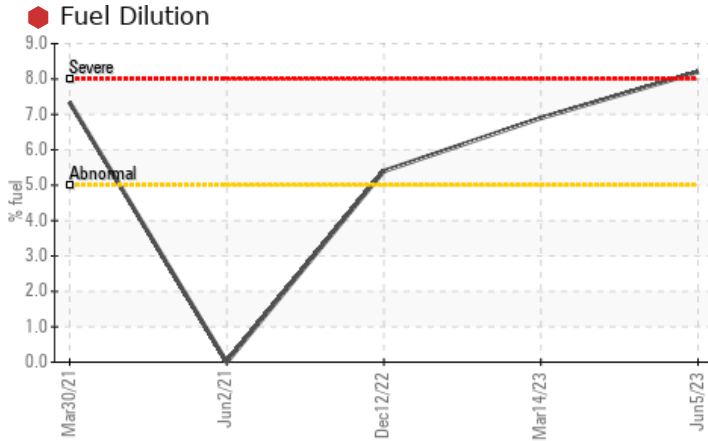
FUEL



Area
SCHTRUCK
 Machine Id
6313 [SCHTRUCK]

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Fuel	%	ASTM D3524	>5	8.2	6.9	5.4
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	11.6	11.7

Customer Id: SCHPLA
 Sample No.: SBP0004405
 Lab Number: 05869927
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Fuel/injector System	---	---	?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

14 Mar 2023 Diag: Wes Davis

FUEL



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

view report



12 Dec 2022 Diag: Jonathan Hester

FUEL



We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



02 Jun 2021 Diag: Wes Davis

SOOT



We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. The oil is no longer serviceable due to the presence of contaminants.

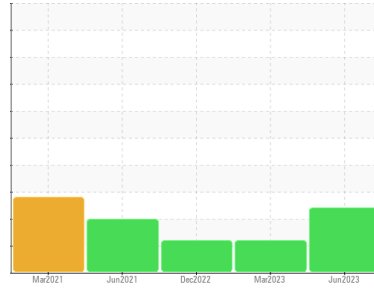
view report





OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area
SCHTRUCK
 Machine Id
6313 [SCHTRUCK]

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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 high 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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0004405	SBP0003915	SBP0002492
Sample Date	Client Info		05 Jun 2023	14 Mar 2023	12 Dec 2022
Machine Age	mls	Client Info	390149	366211	342577
Oil Age	mls	Client Info	23938	23634	24813
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	30	28	29
Chromium	ppm	ASTM D5185m >5	1	2	1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >30	<1	3	4
Lead	ppm	ASTM D5185m >30	3	2	2
Copper	ppm	ASTM D5185m >150	2	2	2
Tin	ppm	ASTM D5185m >5	<1	<1	1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<1	8	32
Barium	ppm	ASTM D5185m 0	0	2	0
Molybdenum	ppm	ASTM D5185m 60	55	55	41
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	835	823	451
Calcium	ppm	ASTM D5185m 1070	998	1165	1593
Phosphorus	ppm	ASTM D5185m 1150	918	937	667
Zinc	ppm	ASTM D5185m 1270	1120	1125	834
Sulfur	ppm	ASTM D5185m 2060	3039	2424	2632

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	3	1	4
Sodium	ppm	ASTM D5185m	6	3	5
Potassium	ppm	ASTM D5185m >20	4	5	6
Chlorine	ppm	ASTM D5185m	---	---	---
Fuel	%	ASTM D3524 >5	8.2	6.9	5.4

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.7	1.9	2.9
Nitration	Abs/cm	*ASTM D7624 >20	9.9	9.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.4	22.5	27.7

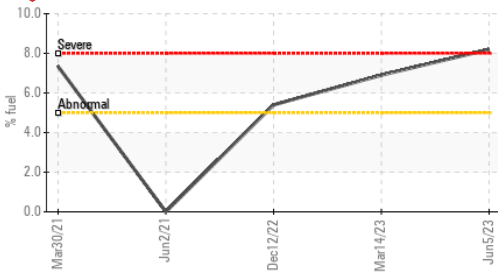
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.7	17.3	22.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.1	7.0	8.2

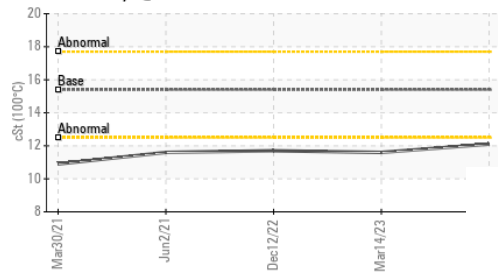


OIL ANALYSIS REPORT

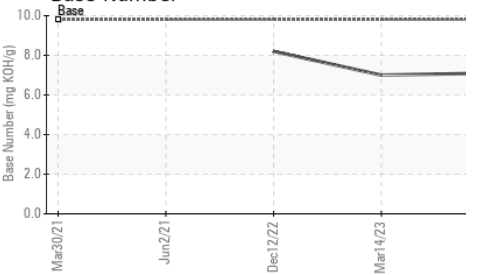
Fuel Dilution



Viscosity @ 100°C



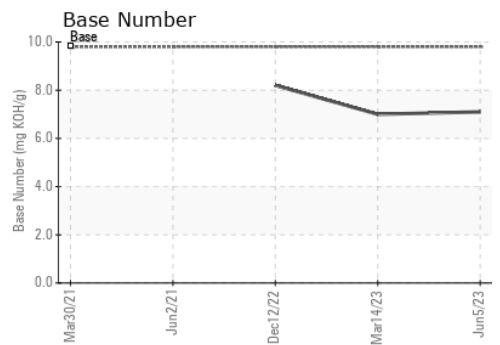
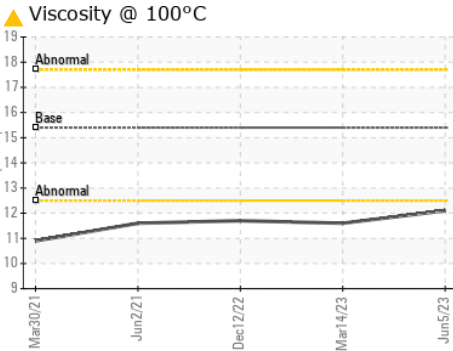
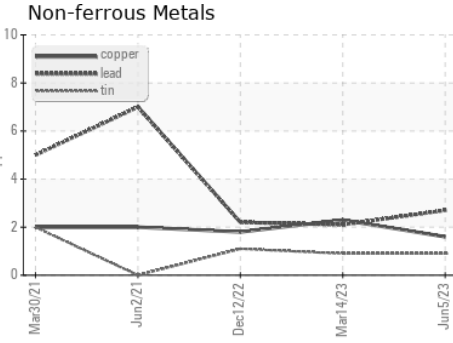
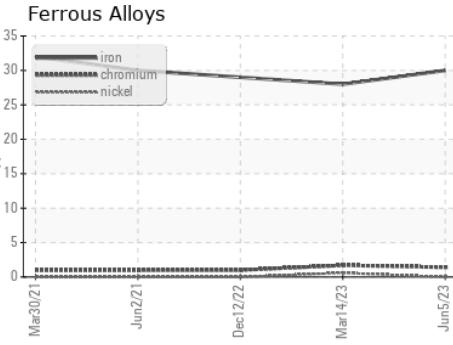
Base Number



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	▲ 12.1	▲ 11.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004405 **Received** : 09 Jun 2023
Lab Number : 05869927 **Diagnosed** : 12 Jun 2023
Unique Number : 10509711 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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 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)