

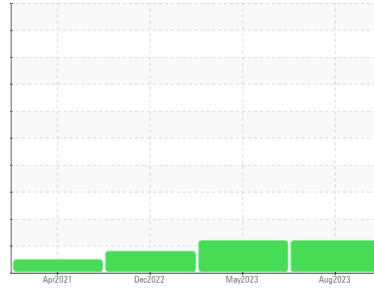


# PROBLEM SUMMARY

Area  
**SCHTRUCK**  
 Machine Id  
**6318 [SCHTRUCK]**

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

Sample Rating Trend

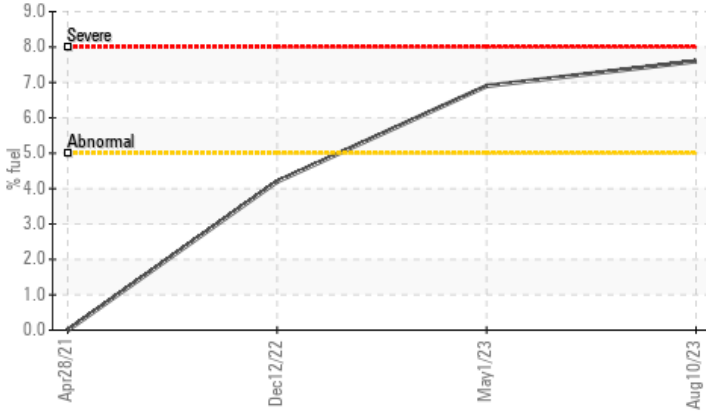


**FUEL**

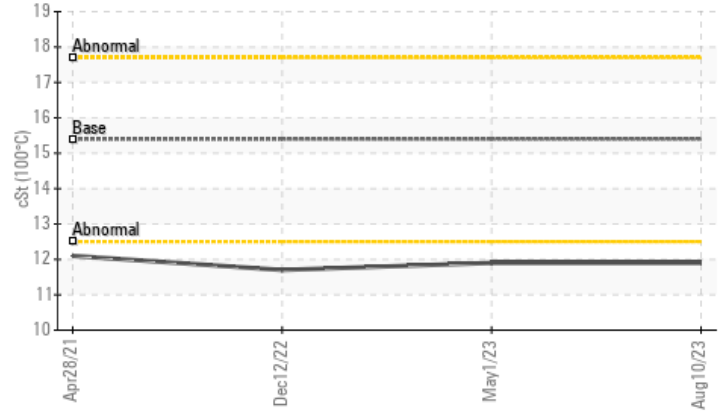


## COMPONENT CONDITION SUMMARY

▲ Fuel Dilution



▲ Viscosity @ 100°C



## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Fuel	%	ASTM D3524	>5	▲ <b>7.6</b>	▲ 6.9	▲ 4.2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ <b>11.9</b>	▲ 11.9	11.7

Customer Id: SCHPLA  
 Sample No.: SBP0005079  
 Lab Number: 05925388  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 01 May 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. 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. Light fuel dilution occurring. 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



### 28 Apr 2021 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

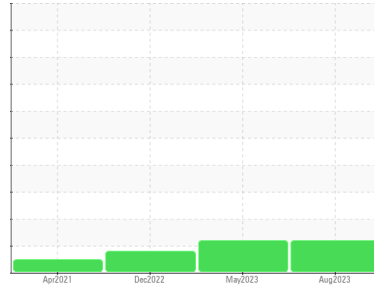
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# OIL ANALYSIS REPORT

Sample Rating Trend



**FUEL**



Area  
**SCHTRUCK**  
Machine Id  
**6318 [SCHTRUCK]**

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

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### 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. 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	<b>SBP0005079</b>	SBP0004348	SBP0002488
Sample Date	Client Info	<b>10 Aug 2023</b>	01 May 2023	12 Dec 2022
Machine Age	mls	<b>722090</b>	698428	677137
Oil Age	mls	<b>23662</b>	21291	25276
Oil Changed	Client Info	<b>Changed</b>	Changed	Not Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >80	<b>27</b>	19	24
Chromium	ppm	ASTM D5185m >5	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m >30	<b>19</b>	2	7
Copper	ppm	ASTM D5185m >150	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m >5	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<b>1</b>	2	33
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>57</b>	54	42
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>917</b>	853	450
Calcium	ppm	ASTM D5185m 1070	<b>1007</b>	1081	1635
Phosphorus	ppm	ASTM D5185m 1150	<b>948</b>	919	645
Zinc	ppm	ASTM D5185m 1270	<b>1192</b>	1140	830
Sulfur	ppm	ASTM D5185m 2060	<b>3497</b>	3012	2659

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<b>2</b>	2	3
Sodium	ppm	ASTM D5185m	<b>16</b>	8	6
Potassium	ppm	ASTM D5185m >20	<b>31</b>	1	2
Chlorine	ppm	ASTM D5185m	<b>---</b>	---	---
Fuel	%	ASTM D3524 >5	<b>▲ 7.6</b>	▲ 6.9	▲ 4.2

## INFRA-RED

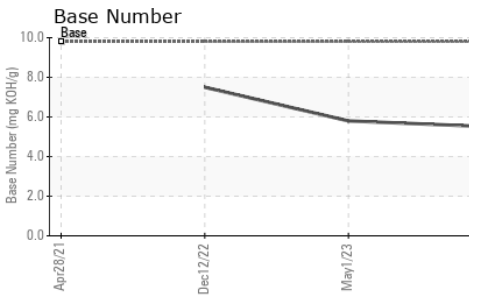
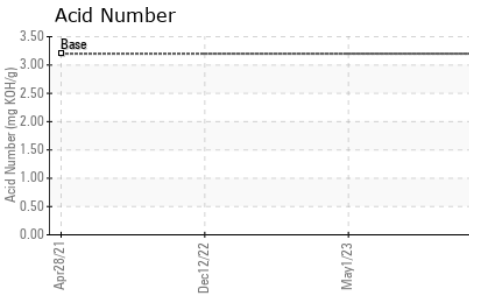
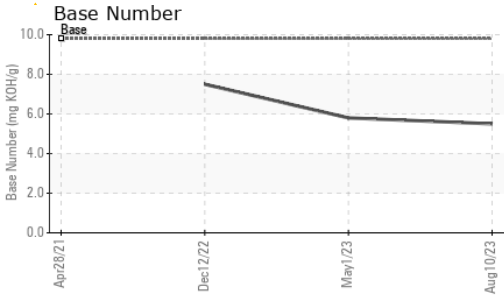
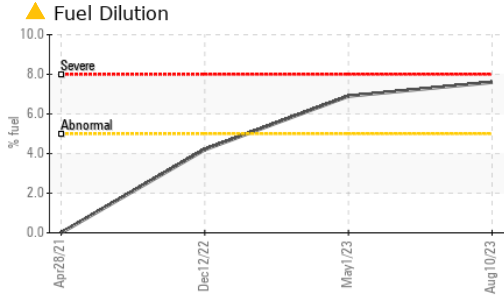
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	<b>2.5</b>	2.1	2.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.3</b>	8.9	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.5</b>	22.8	30.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.4</b>	20.0	30.1
Acid Number (AN)	mg KOH/g	ASTM D8045 3.2	<b>0.06</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>5.5</b>	5.8	7.5



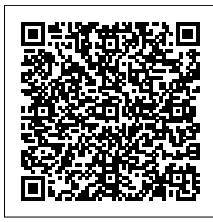
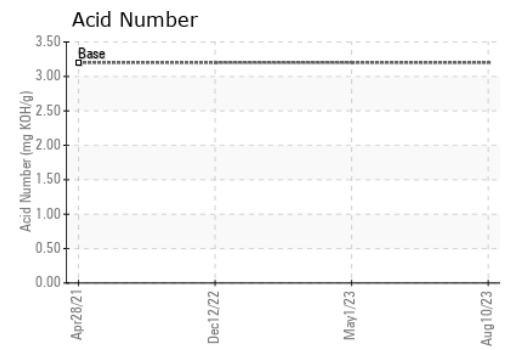
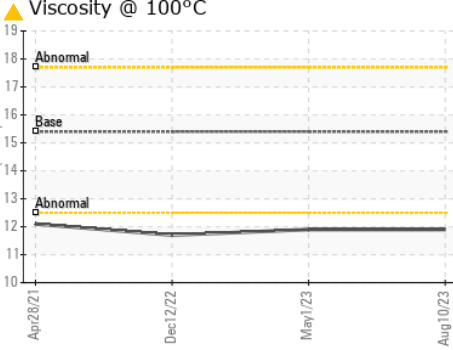
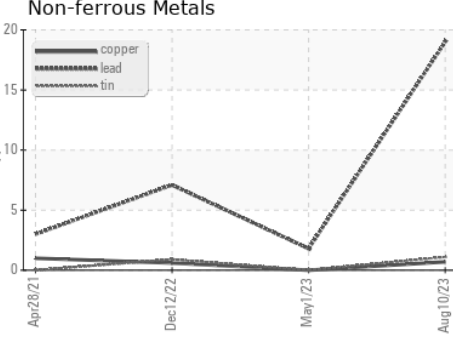
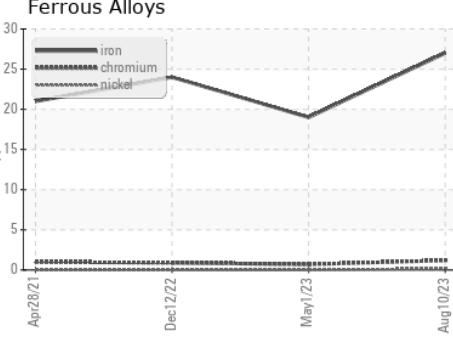
# OIL ANALYSIS REPORT



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	▲ 11.9	▲ 11.9

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0005079 **Received** : 15 Aug 2023  
**Lab Number** : 05925388 **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10605335 **Diagnostician** : Doug Bogart  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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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)