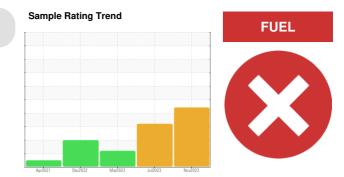


PROBLEM SUMMARY

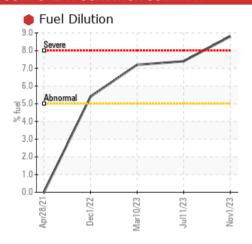
SCHTRUCK Machine Id 6249 [SCHTRUCK]

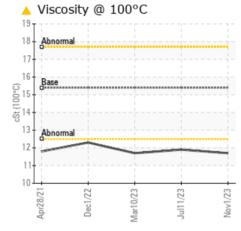
Diesel Engine

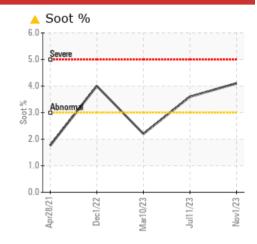
PETRO CANADA DURON SHP 15W40 (--- GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We advise that you check the fuel injection system. Oil and filter 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	8.8	▲ 7.4	▲ 7.2					
Soot %	%	*ASTM D7844	>3	4.1	▲ 3.6	2.2					
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<u> </u>	<u>^</u> 2.1	4.9					
Visc @ 100°C	cSt	ASTM D445	15.4	11.7	<u> </u>	<u> </u>					

Customer Id: SCHPLA Sample No.: SBP0005601 Lab Number: 06000946 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +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. ? Resample We recommend an early resample to monitor this condition. We advise that you check for faulty combustion, plugged air filters, or **Check Combustion** ? aftercoolers. Check Fuel/injector We advise that you check the fuel injection system. System

HISTORICAL DIAGNOSIS

11 Jul 2023 Diag: Don Baldridge

DEGRADATION



We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN level is low.



10 Mar 2023 Diag: Angela Borella





We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. 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.



01 Dec 2022 Diag: Jonathan Hester

SOOT



We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. 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.





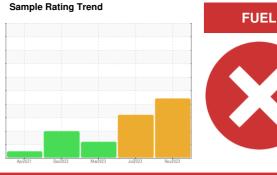
OIL ANALYSIS REPORT

OIL ANALYSIS REPOR

SCHTRUCK Machine Id 6249 [SCHTRUCK]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We advise that you check the fuel injection system. Oil and filter 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 an abnormal amount of solids and carbon present in the oil. There is a high amount of fuel present in the oil.

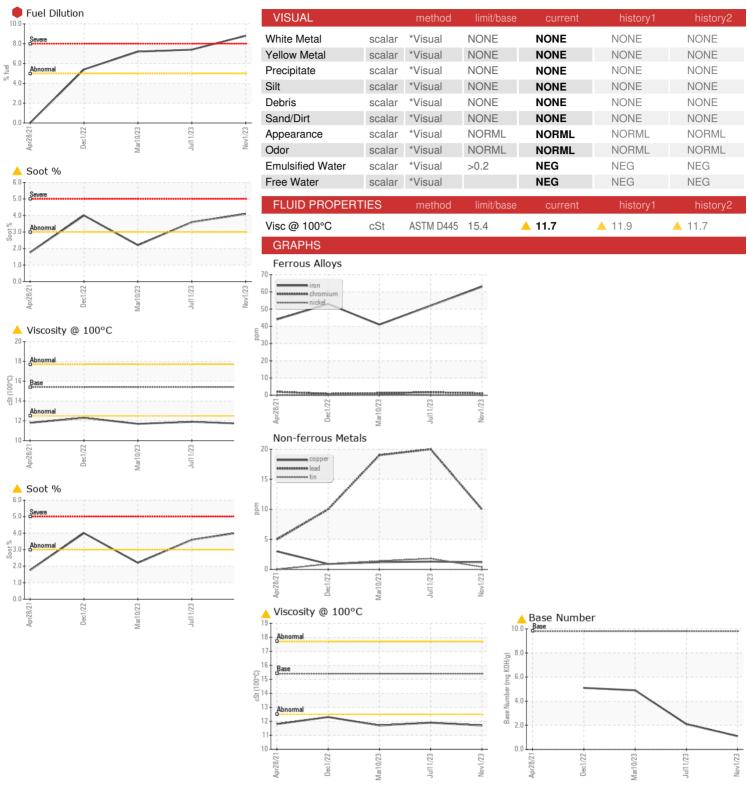
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005601	SBP0004693	SBP0003906
Sample Date		Client Info		01 Nov 2023	11 Jul 2023	10 Mar 2023
Machine Age	mls	Client Info		653722	629695	604794
Oil Age	mls	Client Info		24027	24901	23878
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATION	I	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	63	52	41
Chromium	ppm	ASTM D5185m	>5	1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	2
Lead	ppm	ASTM D5185m	>30	10	20	19
Copper	ppm	ASTM D5185m	>150	1	1	1
Tin	ppm	ASTM D5185m	>5	<1	2	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	6	1	2
Barium	ppm		0	5	0	2
Molybdenum	ppm	ASTM D5185m	60	51	59	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	752	968	854
Calcium	ppm	ASTM D5185m	1070	1023	1149	1164
Phosphorus	ppm	ASTM D5185m	1150	813	948	910
Zinc	ppm	ASTM D5185m	1270	1011	1220	1148
Sulfur	ppm	ASTM D5185m	2060	2564	3503	2489
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	<1
Sodium	ppm	ASTM D5185m		8	9	5
Potassium	ppm		>20	2	4	4
Fuel	%	ASTM D3524	>5	8.8	<u> </u>	<u> </u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	4.1	△ 3.6	2.2
Nitration	Abs/cm	*ASTM D7624	>20	11.9	12.2	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.9	34.5	28.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Ovidation	Abs/.1mm	*ASTM D7414	>25	24.4	33.1	28.2
Oxidation	AUS/.TITIIT	A311VI D7414	>23	34.4	33.1	20.2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06000946

: SBP0005601 : 10729306

Received : 07 Nov 2023 Diagnosed : 09 Nov 2023

Diagnostician : Don Baldridge Test Package : FLEET (Additional Tests: PercentFuel)

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)

SCHMIDT TRANSPORTATION - 605449

108 E Bay Road Plattsmouth, NE US 68048 Contact: NICK DOTY

doty@liquidtrucking.com T: (402)949-9398

Submitted By: CASEY WILKIE