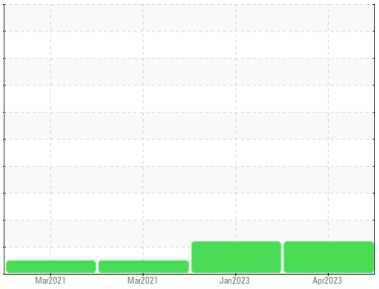
PROBLEM SUMMARY

Sample Rating Trend

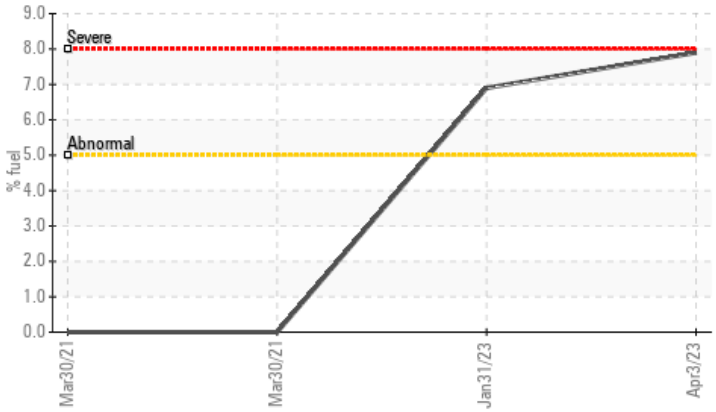


FUEL

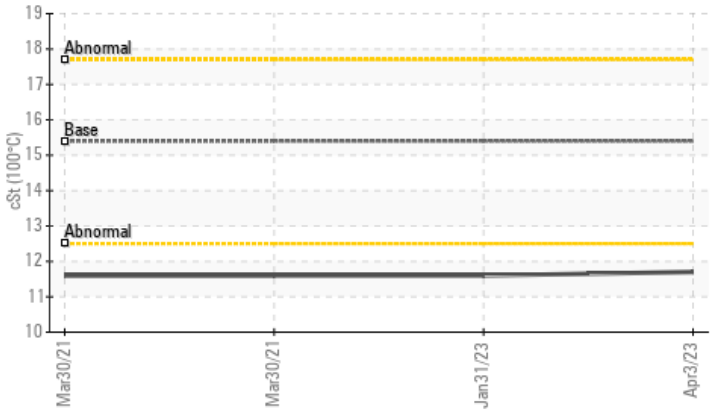
Area
SCHTRUCK
Machine Id
6240 [SCHTRUCK]
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Fuel Dilution



▲ Viscosity @ 100°C



RECOMMENDATION

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				**ABNORMAL**	ABNORMAL	NORMAL
Fuel	%	ASTM D3524	>5	▲ **7.9**	▲ 6.9	<1.0
Visc @ 100°C	cSt	ASTM D445	15.4	▲ **11.7**	▲ 11.6	11.6

Customer Id: SCHPLA
Sample No.: SBP0004203
Lab Number: 05812028
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.

HISTORICAL DIAGNOSIS

31 Jan 2023 Diag: Don Baldridge

FUEL

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.

view report

30 Mar 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.

view report

30 Mar 2021 Diag: Wes Davis

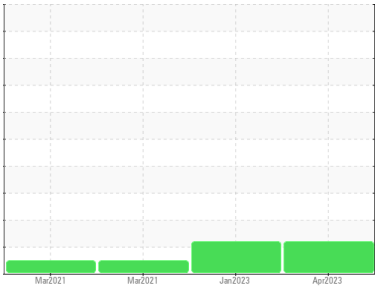
NORMAL

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.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Area
SCHTRUCK
Machine Id
6240 [SCHTRUCK]
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

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		**SBP0004203**	SBP0002525	SBP98359003
Sample Date		Client Info		**03 Apr 2023**	31 Jan 2023	30 Mar 2021
Machine Age	mls	Client Info		**784014**	756940	609947
Oil Age	mls	Client Info		**27574**	26287	25146
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	**31**	38	26
Chromium	ppm	ASTM D5185m	>5	**2**	2	2
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>30	**<1**	0	2
Lead	ppm	ASTM D5185m	>30	**1**	9	12
Copper	ppm	ASTM D5185m	>150	**1**	1	1
Tin	ppm	ASTM D5185m	>5	**0**	<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	**7**	26	33
Barium	ppm	ASTM D5185m	0	**0**	0	1
Molybdenum	ppm	ASTM D5185m	60	**59**	40	2
Manganese	ppm	ASTM D5185m	0	**1**	<1	0
Magnesium	ppm	ASTM D5185m	1010	**879**	487	767
Calcium	ppm	ASTM D5185m	1070	**1161**	1383	1303
Phosphorus	ppm	ASTM D5185m	1150	**970**	640	715
Zinc	ppm	ASTM D5185m	1270	**1166**	812	790
Sulfur	ppm	ASTM D5185m	2060	**3383**	2336	---

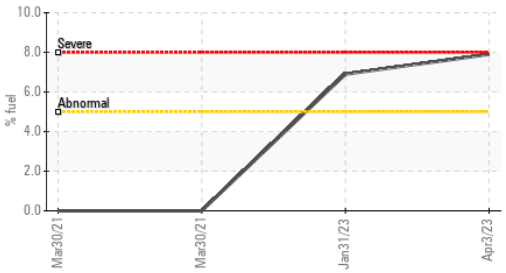
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**3**	4	6
Sodium	ppm	ASTM D5185m		**9**	9	5
Potassium	ppm	ASTM D5185m	>20	**4**	2	3
Chlorine	ppm	ASTM D5185m		**---**	---	0
Fuel	%	ASTM D3524	>5	▲ **7.9**	▲ 6.9	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.9**	1.7	1.92
Nitration	Abs/cm	*ASTM D7624	>20	**10.6**	11.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**26.0**	28.3	---

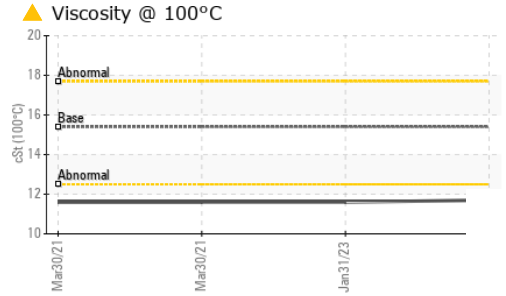
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**24.1**	31.5	2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**6.3**	5.4	---

OIL ANALYSIS REPORT

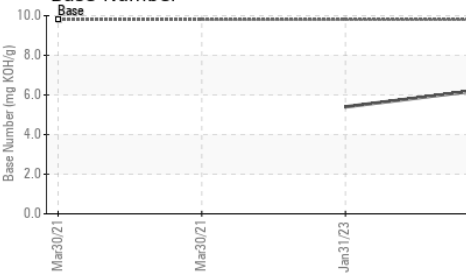
Fuel Dilution



Viscosity @ 100°C



Base Number

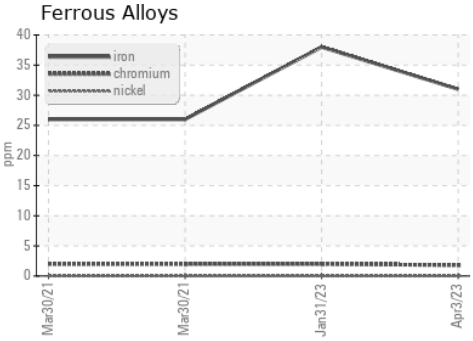


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---

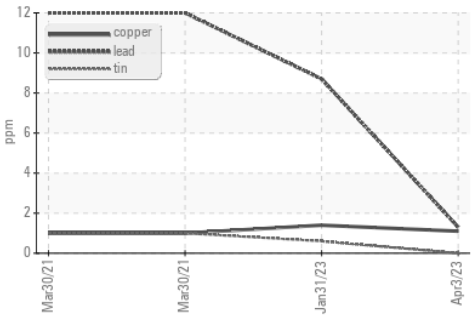
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ **11.7**	▲ 11.6	11.6

GRAPHS

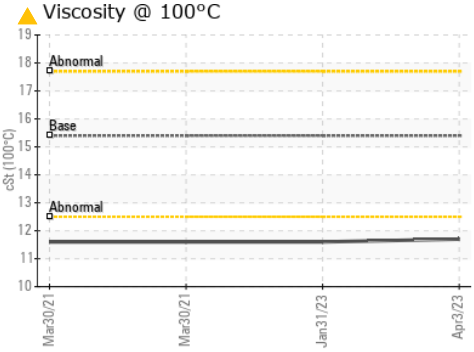
Ferrous Alloys



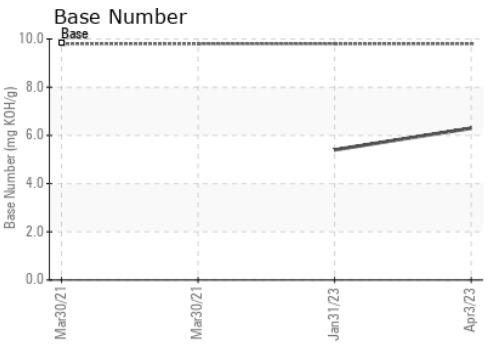
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004203 **Received** : 05 Apr 2023
Lab Number : 05812028 **Diagnosed** : 07 Apr 2023
Unique Number : 10414820 **Diagnostician** : Wes Davis
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)

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Report Id: SCHPLA [WUSCAR] 05812028 (Generated: 09/07/2023 08:41:57) Rev: 1

Submitted By: CASEY WILKIE