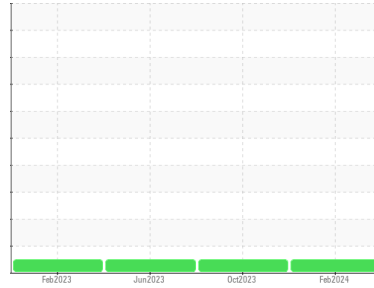




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**SCHTRUCK**  
 Machine Id  
**6371 [SCHTRUCK]**

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>SBP0006653</b>	SBP0005627	SBP0000229
Sample Date	Client Info			<b>21 Feb 2024</b>	24 Oct 2023	22 Jun 2023
Machine Age	mls	Client Info		<b>319417</b>	279618	238558
Oil Age	mls	Client Info		<b>39799</b>	41060	37190
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>14</b>	19	20
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>5</b>	4	7
Lead	ppm	ASTM D5185m	>30	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>9</b>	15	23
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	12	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>69</b>	69	61
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1040</b>	935	982
Calcium	ppm	ASTM D5185m	1070	<b>1191</b>	1123	1193
Phosphorus	ppm	ASTM D5185m	1150	<b>1094</b>	1034	966
Zinc	ppm	ASTM D5185m	1270	<b>1367</b>	1273	1313
Sulfur	ppm	ASTM D5185m	2060	<b>2526</b>	2817	2698

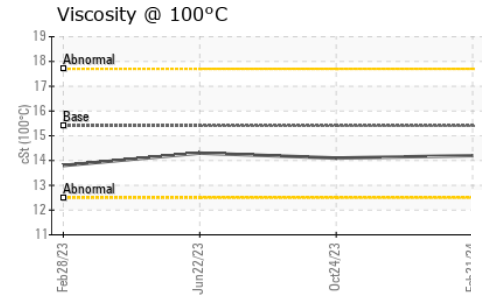
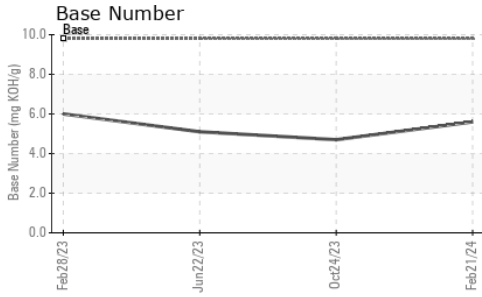
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	6	6
Sodium	ppm	ASTM D5185m		<b>3</b>	<1	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1</b>	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.0</b>	11.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	23.8	23.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	21.7	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.6</b>	4.7	5.1



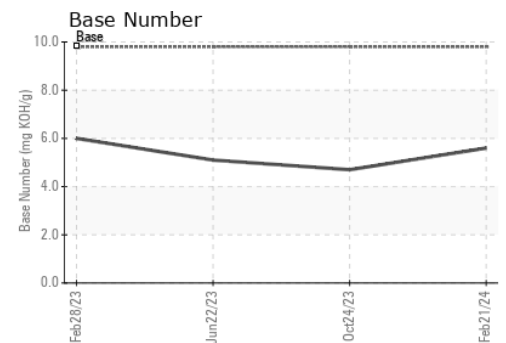
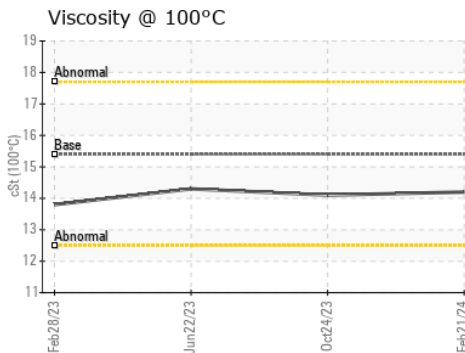
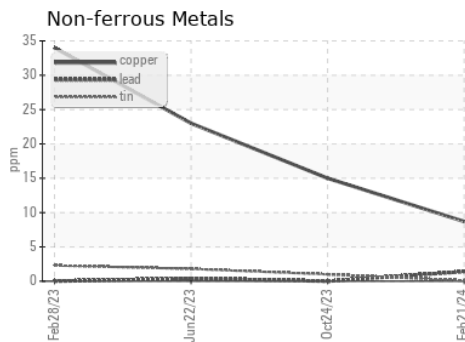
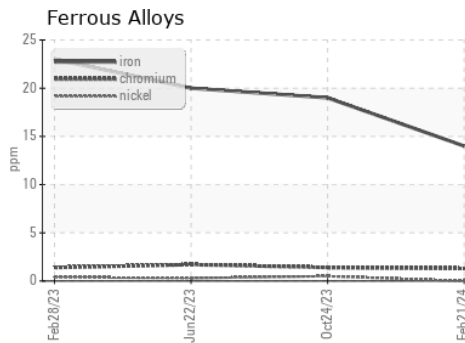
# OIL ANALYSIS REPORT



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	<b>14.2</b>	14.1	14.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006653  
**Lab Number** : **06100747**  
**Unique Number** : 10898977  
**Test Package** : FLEET

**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Wes Davis

**SCHMIDT TRANSPORTATION - 605449**

108 E Bay Road  
Plattsmouth, NE  
US 68048

Contact: NICK DOTY  
doty@liquidtrucking.com

T: (402)949-9398

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)