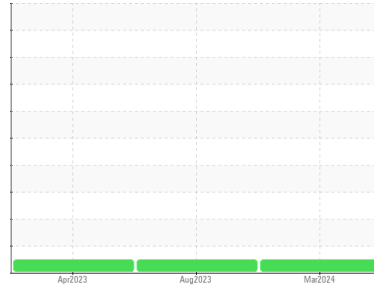




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SCHTRUCK**  
 Machine Id  
**7065 [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>SBP0007051</b>	SBP0005068	SBP0004196
Sample Date	Client Info		<b>29 Mar 2024</b>	22 Aug 2023	07 Apr 2023
Machine Age	mls	Client Info	<b>329323</b>	290318	249636
Oil Age	mls	Client Info	<b>39005</b>	40682	39742
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	>6.0	<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 >100	<b>38</b>	34	33
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m >2	<b>2</b>	<1	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>7</b>	10	7
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	3
Copper	ppm	ASTM D5185m >330	<b>6</b>	8	6
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	<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>0</b>	1	16
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 60	<b>62</b>	63	44
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m 1010	<b>1043</b>	1009	551
Calcium	ppm	ASTM D5185m 1070	<b>1215</b>	1250	1606
Phosphorus	ppm	ASTM D5185m 1150	<b>1051</b>	1064	752
Zinc	ppm	ASTM D5185m 1270	<b>1293</b>	1344	952
Sulfur	ppm	ASTM D5185m 2060	<b>2871</b>	2968	2251

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	9	9
Sodium	ppm	ASTM D5185m	<b>9</b>	11	4
Potassium	ppm	ASTM D5185m >20	<b>5</b>	9	9

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.9</b>	14.0	12.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.2</b>	25.4	23.5

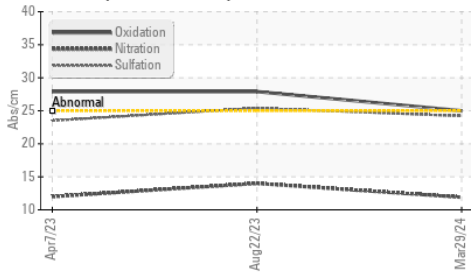
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>25.0</b>	27.9	27.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>3.9</b>	3.4	3.7

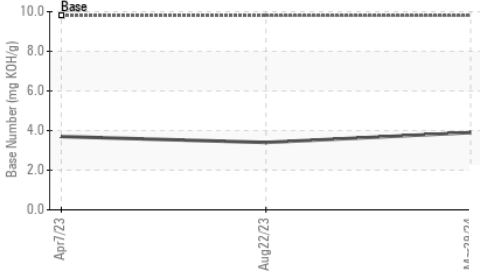


# OIL ANALYSIS REPORT

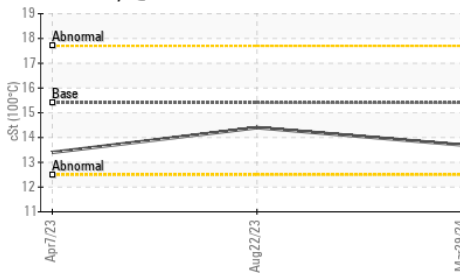
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

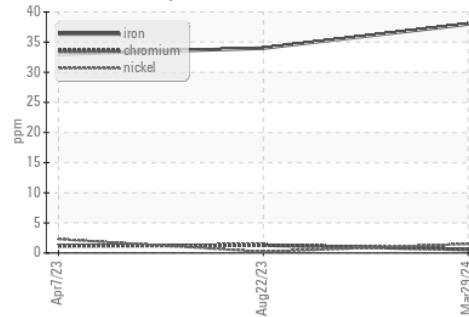


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

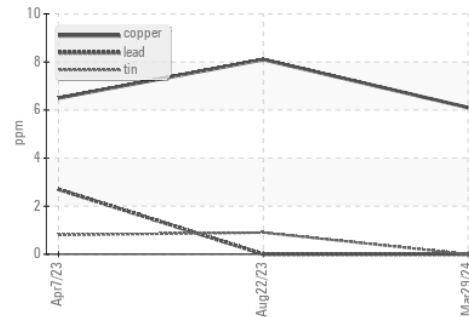
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.4

## GRAPHS

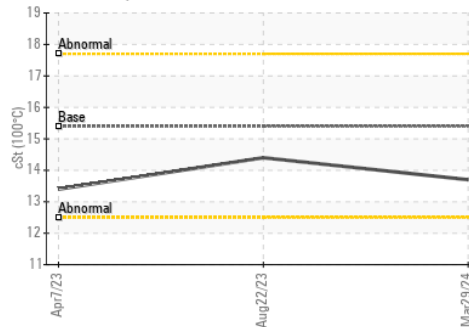
Ferrous Alloys



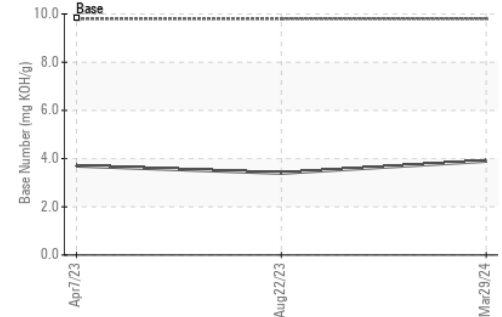
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007051  
**Lab Number** : 06135549  
**Unique Number** : 10955014  
**Test Package** : FLEET

**Received** : 01 Apr 2024  
**Tested** : 02 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Sean Felton

**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)