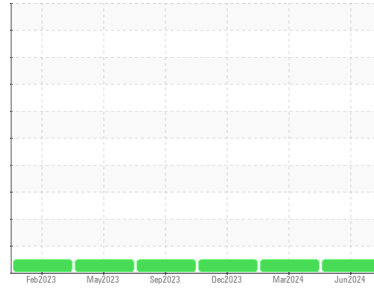




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**SCHTRUCK**  
 Machine Id  
**6374 [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>SBP0007700</b>	SBP0007057	SBP0005940
Sample Date	Client Info		<b>21 Jun 2024</b>	21 Mar 2024	18 Dec 2023
Machine Age	mls	Client Info	<b>296630</b>	257681	219492
Oil Age	mls	Client Info	<b>38949</b>	38189	36917
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	21
Chromium	ppm	ASTM D5185m >5	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>4</b>	7	6
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >150	<b>8</b>	14	24
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	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	<1
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	9
Molybdenum	ppm	ASTM D5185m 60	<b>62</b>	63	79
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>1043</b>	1044	1220
Calcium	ppm	ASTM D5185m 1070	<b>1195</b>	1174	1329
Phosphorus	ppm	ASTM D5185m 1150	<b>1042</b>	1053	1224
Zinc	ppm	ASTM D5185m 1270	<b>1367</b>	1353	1534
Sulfur	ppm	ASTM D5185m 2060	<b>3092</b>	3155	3178

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	4	6
Sodium	ppm	ASTM D5185m	<b>2</b>	3	0
Potassium	ppm	ASTM D5185m >20	<b>4</b>	11	12

### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.7</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.5</b>	8.6	8.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.9</b>	21.1	20.6

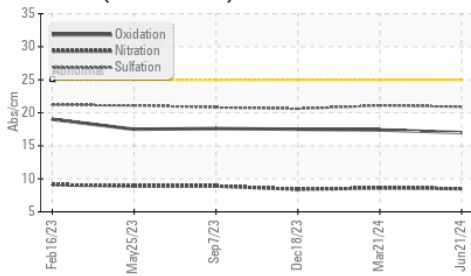
### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.0</b>	17.4	17.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>7.0</b>	7.0	5.7

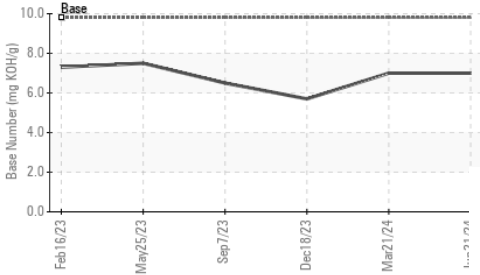


# OIL ANALYSIS REPORT

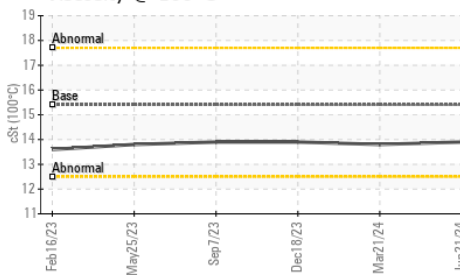
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

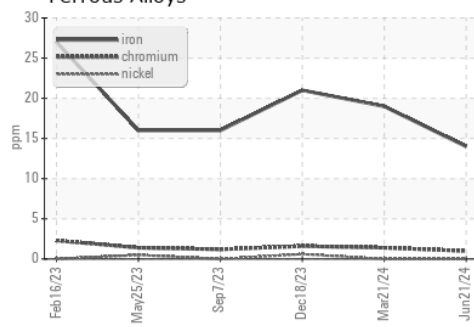


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

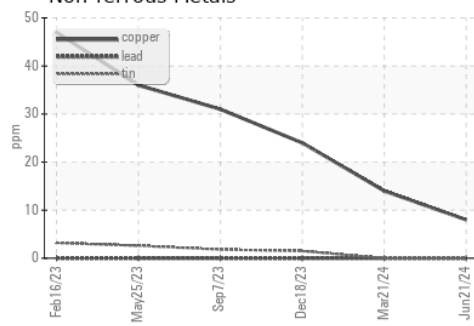
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	13.8	13.9

## GRAPHS

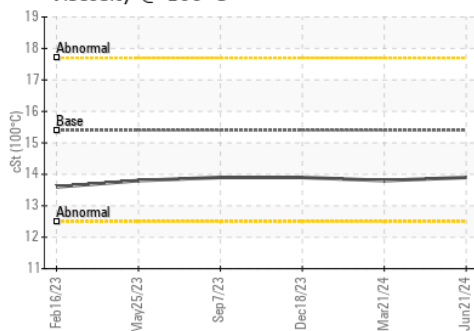
Ferrous Alloys



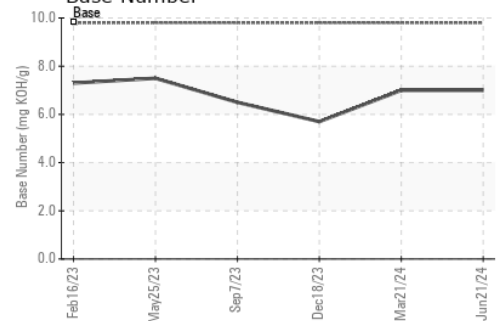
Non-ferrous Metals



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007700  
**Lab Number** : **06219174**  
**Unique Number** : 11097371  
**Test Package** : FLEET  
**Received** : 24 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 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)