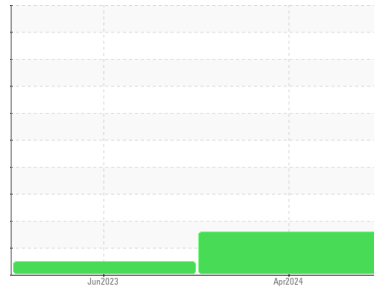




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area  
**SCHTRUCK**  
 Machine Id  
**6287 [SCHTRUCK]**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal.

### 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>SBP0007011</b>	SBP0004687	---
Sample Date	Client Info			<b>05 Apr 2024</b>	28 Jun 2023	---
Machine Age	mls Client Info			<b>408031</b>	370264	---
Oil Age	mls Client Info			<b>37767</b>	36721	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>48</b>	30	---
Chromium	ppm	ASTM D5185m	>5	<b>6</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>12</b>	8	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>15</b>	13	---
Tin	ppm	ASTM D5185m	>5	<b>2</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m	60	<b>66</b>	62	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>1019</b>	804	---
Calcium	ppm	ASTM D5185m	1070	<b>1263</b>	1255	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1055</b>	943	---
Zinc	ppm	ASTM D5185m	1270	<b>1333</b>	1150	---
Sulfur	ppm	ASTM D5185m	2060	<b>2817</b>	2613	---

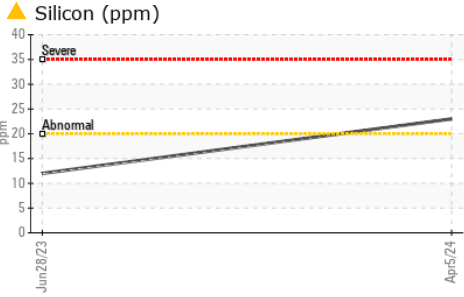
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>▲ 23</b>	12	---
Sodium	ppm	ASTM D5185m		<b>3</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	9.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	22.9	---

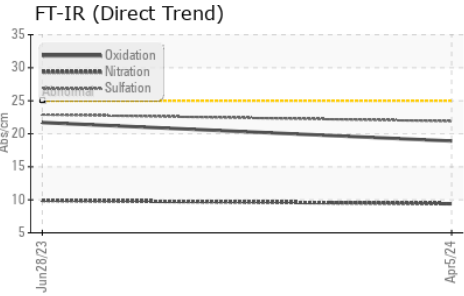
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.5</b>	6.4	---



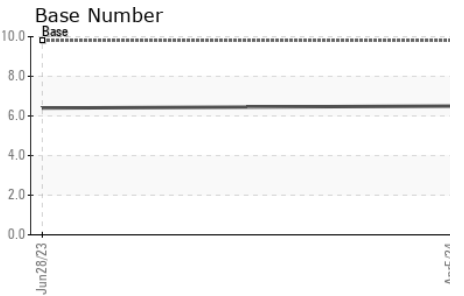
# OIL ANALYSIS REPORT



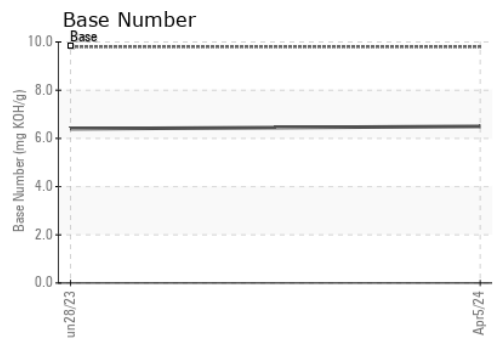
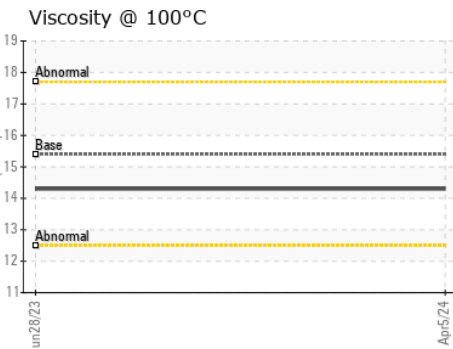
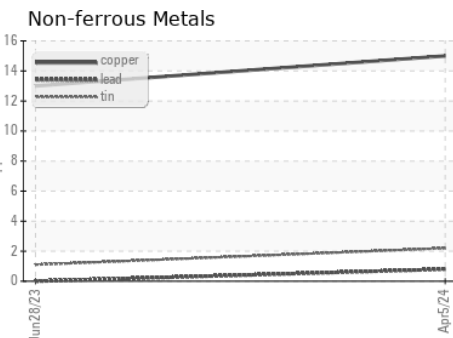
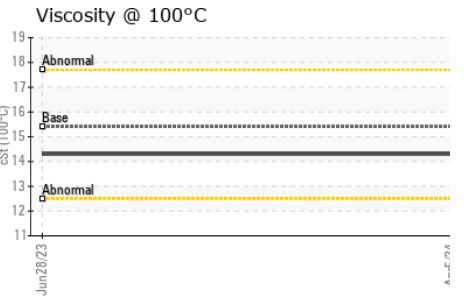
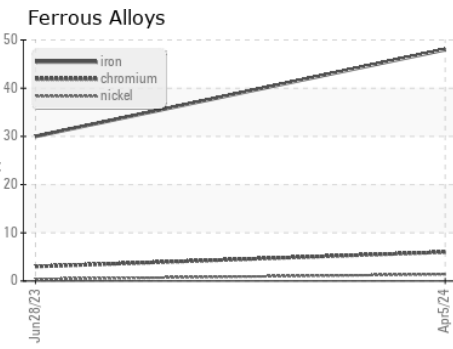
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.3



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007011      **Received** : 09 Apr 2024  
**Lab Number** : **06143630**      **Tested** : 10 Apr 2024  
**Unique Number** : 10968438      **Diagnosed** : 12 Apr 2024 - Don Baldrige  
**Test Package** : FLEET

**SCHMIDT TRANSPORTATION - 605449**  
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 Plattsmouth, NE  
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 doty@liquidtrucking.com  
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 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)