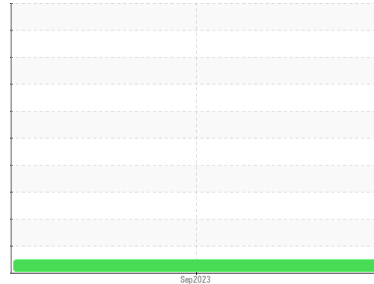




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**Pillen Bulk Tank Bulk**

Component  
**Bulk Fluid Tank**

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

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>SBP0004252</b>	---	---
Sample Date	Client Info			<b>26 Sep 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		<b>0</b>	---	---
Chromium	ppm	ASTM D5185m		<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m		<b>4</b>	---	---
Lead	ppm	ASTM D5185m		<b>0</b>	---	---
Copper	ppm	ASTM D5185m		<b>0</b>	---	---
Tin	ppm	ASTM D5185m		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	60	<b>59</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	1010	<b>1020</b>	---	---
Calcium	ppm	ASTM D5185m	1070	<b>1115</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1085</b>	---	---
Zinc	ppm	ASTM D5185m	1270	<b>1313</b>	---	---
Sulfur	ppm	ASTM D5185m	2060	<b>3426</b>	---	---

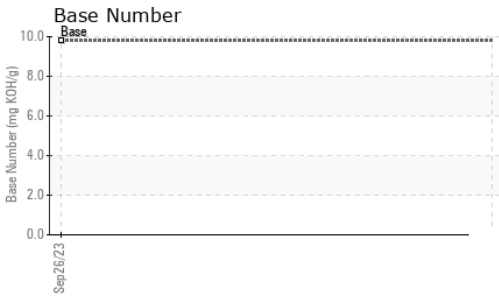
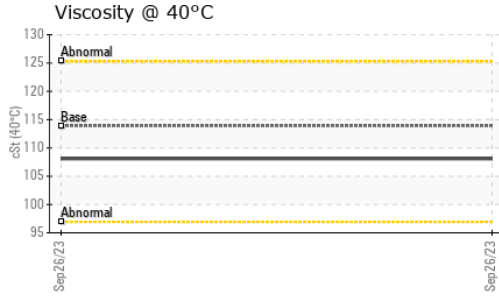
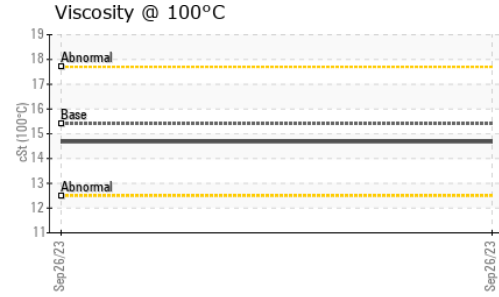
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>5</b>	---	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624		<b>4.1</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415		<b>17.2</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		<b>12.8</b>	---	---



# OIL ANALYSIS REPORT

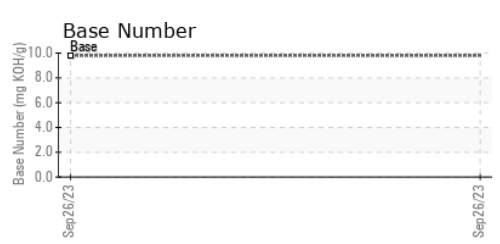
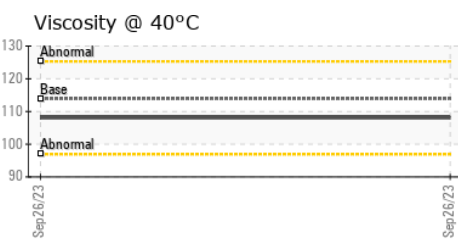
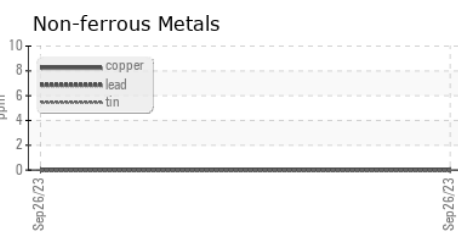
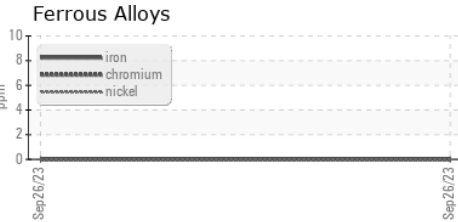


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	113.9	108.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.68	---
Viscosity Index (VI)	Scale	ASTM D2270	142	140	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0004252 **Received** : 29 Sep 2023  
**Lab Number** : 05965844 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10672395 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FT-IR, KV100, TBN, VI )

**Sapp Bros. Petroleum - Corporate - OMA**  
 9915 South 148th  
 OMAHA, NE  
 US 68138  
 Contact: Josh Broz  
 JBroz@sappbros.net  
 T: (402)895-2202  
 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)