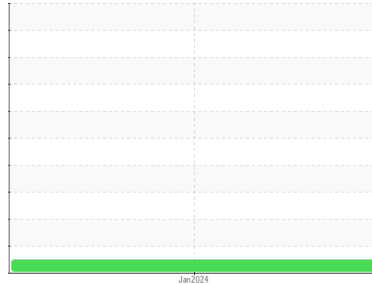




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
DURON SHP 15W40

Component
New (Unused) Oil

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

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor.

Wear

{not applicable}

Contamination

There is no indication of any contamination in the new (unused) oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0080885	---	---
Sample Date	Client Info			23 Jan 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				NORMAL	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method			NEG	---	---

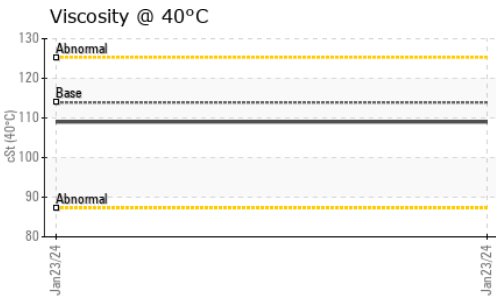
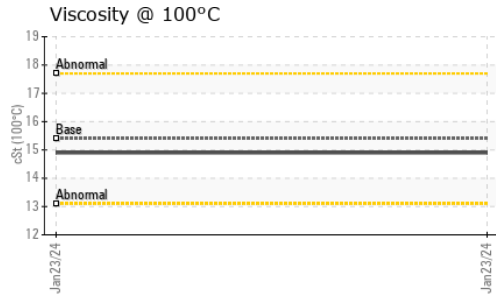
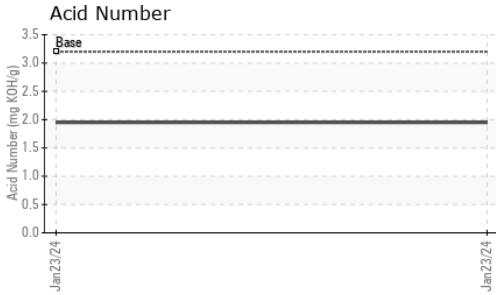
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		<1	---	---
Chromium	ppm	ASTM D5185(m)		0	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		<1	---	---
Lead	ppm	ASTM D5185(m)		0	---	---
Copper	ppm	ASTM D5185(m)		0	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	60	57	---	---
Manganese	ppm	ASTM D5185(m)	0	0	---	---
Magnesium	ppm	ASTM D5185(m)	1010	954	---	---
Calcium	ppm	ASTM D5185(m)	1070	1040	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	1008	---	---
Zinc	ppm	ASTM D5185(m)	1270	1144	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2774	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		4	---	---
Sodium	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		4.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*		17.4	---	---

OIL ANALYSIS REPORT

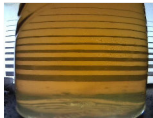



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		39616	---	---
Particles >6µm		ASTM D7647		11615	---	---
Particles >14µm		ASTM D7647		183	---	---
Particles >21µm		ASTM D7647	>0	17	---	---
Particles >38µm		ASTM D7647	>0	4	---	---
Particles >71µm		ASTM D7647	>0	3	---	---
Oil Cleanliness		ISO 4406 (c)		22/21/15	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		12.6	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	3.2	1.95	---	---

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 D7279(m)	113.9	109	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	142	141	---	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080885 **Received** : 26 Jan 2024
Lab Number : **02611491** **Diagnosed** : 29 Jan 2024
Unique Number : 5720586 **Diagnostician** : Bill Quesnel
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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