

# **OIL ANALYSIS REPORT**

# Sample Rating Trend









Machine Id
210 []
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

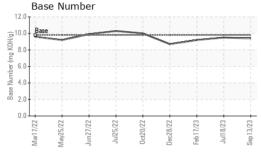
# **Fluid Condition**

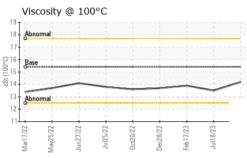
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	G.712)	Madd22 Mayb022 Junb022 Junb022 Oct022 Oct022 Febb023 Jul023 Sepb023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		SBP0000849	SBP0003809	SBP0000852	
Sample Date		Client Info		13 Sep 2023	18 Jul 2023	17 Feb 2023	
Machine Age	hrs	Client Info		7759	7355	6760	
Oil Age	hrs	Client Info		159	250	275	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2	
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	1	3	4	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	0	<1	<1	
Lead	ppm	ASTM D5185m	>40	<1	<1	<1	
Copper	ppm	ASTM D5185m	>20	<1	<1	<1	
Tin	ppm	ASTM D5185m	>20	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	3	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	62	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	991	1033	932	
Calcium	ppm	ASTM D5185m	1070	1061	1204	1115	
Phosphorus	ppm	ASTM D5185m	1150	1027	1089	1036	
Zinc	ppm	ASTM D5185m	1270	1248	1298	1263	
Sulfur	ppm	ASTM D5185m	2060	3246	3860	3381	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	3	3	5	
Sodium	ppm	ASTM D5185m		3	2	4	
Potassium	ppm	ASTM D5185m	>20	0	<1	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.2	6.1	5.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.5	17.5	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.5	13.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	9.5	9.2	
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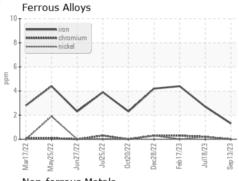


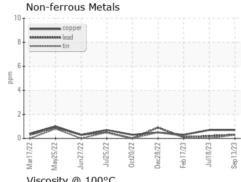


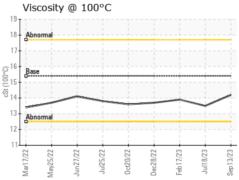
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

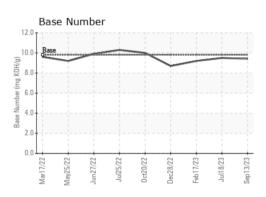
FLUID PROPER	HES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.5	13.9

# **GRAPHS**













Laboratory Sample No. Lab Number Unique Number : 10673416

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0000849 : 05966865

Received

: 02 Oct 2023 Diagnosed : 03 Oct 2023 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: TBN )

Certificate L2367 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)

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Contact: ZACH SPURLOCK

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