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Machine Id **SHELL T4 15W40** Compone New (Unused) Oil SHELL ROTELLA T4 15W40 (--- LTR)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
This is the baseline readout on this new (unused) oil. The fluid is		Sample Number		Client Info		PP		
		Sample Date		Client Info		28 May 2024		
suitable for service.		Machine Age	hrs	Client Info		0		
		Oil Age	hrs	Client Info		0		
		Filter Age	hrs	Client Info		0		
		Oil Changed		Client Info		N/A		
		Filter Changed		Client Info		N/A		
		Sample Status				NORMAL		
WEAR]	Iron	ppm	ASTM D5185(m)	<u></u> 5	1		
WEAR		Chromium	ppm	ASTM D5185(m)		0		
{not applicable}		Nickel	ppm	ASTM D5185(m)		0		
		Titanium	ppm	ASTM D5185(m)	20	0		
		Silver	ppm	ASTM D5185(m)	>5	0		
		Aluminum	ppm	ASTM D5185(m)		<1		
		Lead	ppm	ASTM D5185(m)	>5	0		
		Copper	ppm	ASTM D5185(m)		0		
		Tin	ppm	ASTM D5185(m)		0		
		Vanadium	ppm	ASTM D5185(m)		0		
		White Metal	scalar	Visual*	NONE	NONE		
		Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185(m)		4		
There is no indication of any contamination in the new (unused) oil.		Potassium	ppm	ASTM D5185(m)	>20	5		
		Water		WC Method		NEG		
	Soot %	%	ASTM D7844*		0			
	Nitration	Abs/cm	ASTM D7624*		4.9			
	Sulfation	Abs/.1mm	ASTM D7415*	NONE	20.4			
	Silt	scalar	Visual*	NONE	NONE			
	Debris	scalar	Visual*	NONE	VLITE			
		Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML			
	Odor	scalar	Visual*	NORML	NORML			
		Emulsified Water	scalar	visuai"		NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185(m)		2		
		Boron	ppm	ASTM D5185(m)		180		
The condition of the oil is suitable for service.		Barium	ppm	ASTM D5185(m)		0		
		Molybdenum	ppm	ASTM D5185(m)		4		
		Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		81			
	Calcium	ppm	ASTM D5185(m)		2010			
	Phosphorus	ppm	ASTM D5185(m)		980			
	Zinc	ppm	ASTM D5185(m)		1090			
	Sulfur	ppm	ASTM D5185(m)		2940			
	Oxidation	Abs/.1mm	ASTM D7414*		15.4			
		Visc @ 40°C	cSt	ASTM D7279(m)	118	104		
	V/ 0 10000	0.		4 -				

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270* 133

ASTM D7279(m) 15

14.1

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BALMAR PETROLEUM Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Ð۴ Sample No. : PP Received 220 DONEY CRESCENT, SUITE 210 : 29 May 2024 Lab Number : 02638450 Tested CONCORD, ON : 30 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5787612 : 31 May 2024 - Kevin Marson CA L4K 3A8 Diagnosed Test Package : MOB 1 (Additional Tests: Bottom, FT-IR, ICP-NewOil, KV100, VI) **Contact: Peter Perrone** perrone@balmarpetroleum.ca To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (905)882-7667 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)882-9454 Validity of results and interpretation are based on the sample and information as supplied.