

OIL ANALYSIS REPORT

N.E.R./Off-Road **TG10**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

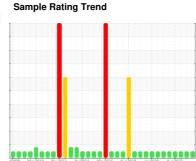
All component wear rates are normal.

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.



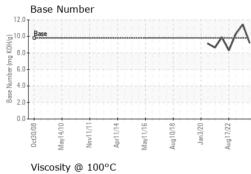


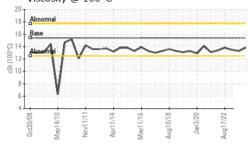
NORMAL

Sample Number Client Info PCA0078198 PCA0083109 PCA0071958 Sample Date Client Info 15 Nov 2023 12 Apr 2023 16 Jan 2023 Machine Age hrs Client Info 7769 7769 7769 Oil Age hrs Client Info 7769 7769 7769 Oil Age hrs Client Info N/A N/A N/A Sample Status Imathe Imath/base current history1 history2 Fuel WC Method S <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >100 44 22 27 Chromium ppm ASTM D5185m >20 <1 0 1 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D51
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Sulfur ppm ASTM D5185m 2060 3392 3381 3643 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m 2 2 3 Potassium ppm ASTM D5185m >20 3 1 <1
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Silicon ppm ASTM D5185m >25 3 4 3 Sodium ppm ASTM D5185m 2 2 3 Potassium ppm ASTM D5185m >20 3 1 <1
Sodium ppm ASTM D5185m 2 2 3 Potassium ppm ASTM D5185m >20 3 1 <1
Potassium ppm ASTM D5185m >20 3 1 <1
INFRA-RED method limit/base current history1 history2
Soot % % *ASTM D7844 >3 0.7 0.3 0.5
Nitration Abs/cm *ASTM D7624 >20 10.3 8.0 8.8
Sulfation Abs/.1mm *ASTM D7415 >30 23.0 19.0 21.0
FLUID DEGRADATION method limit/base current history1 history2
Oxidation Abs/.1mm *ASTM D7414 >25 19.7 16.3 17.1



OIL ANALYSIS REPORT





		VISUAL		method				history2	
	$ \land$	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT	
	$\sim \sim$	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	
16-1 16-1	20 -	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
Apr11/14 May11/16 Aug10/18	Jan3/20 Aug17/22	Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
	4	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
		Free Water		*Visual	>0.2	NEG	NEG	NEG	
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		10			10	)			
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		May Nov	May	Aug	Jue	2 -	May	n Ja	
		Copper (ppm)				Silicon (ppm)			
		400 Severe			80				
		300 -			60	•			
		툞 200			<u>a</u> 40	)			
		100 -			20	Abnormal			
					20				
			16 +	720			16-1	22	
		0ct30/08 May14/10 Nov11/11	May11/16	Aug10/18 Jan3/20	'/ I Bni	0ct30/08 May14/10 Nov11/11	Apr1 1/14 May1 1/16	Jan3/20 Aug17/22	
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		Oct: Mayi Nov	Mayl	Aug	Bny	Nayl. Nov	Apri May1	Jar Aug1	
	Laboratory Sample No. Lab Number Unique Numbe Test Packag	: <mark>06011090</mark> er : 10750234	501 Madi <b>Receive</b> Diagnos Diagnos	d : 17 ed : 20	ary, NC 27513 Nov 2023 Nov 2023 Is Davis	3	565	ONSTRUCTION WINTHROP ST TAUNTON, MA US 02780	
Certificate L2367		: MOB 2 contact Customer Service at 1-800-237-1369. are outside of the ISO 17025 scope of accreditation.					Contact: BUTCH MCGRATH bmcgrath@glopes.com		

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