

ACELA TECUMSEH SUPPORT #2 Component Rear Differential

CHEVRON DELO GEAR ESI OIL 80W90 (--- GAL)

 MEND	 	

Confirm the source of the lubricant being utilized for top-up/fill. 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

Viscosity of sample indicates oil is within ISO 68 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0777325		
Sample Date		Client Info		08 Mar 2023		
Machine Age	mls	Client Info		15669		
Oil Age	mls	Client Info		5000		
Filter Age	mls	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron			. 500	100		
Iron	ppm	ASTM D5185(m)	>500	100		
Chromium	ppm	ASTM D5185(m)	>10	1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	5		
Lead	ppm	ASTM D5185(m)	>25	<1		
Copper	ppm	ASTM D5185(m)	>100	<1		
Tin	ppm	ASTM D5185(m)	>10	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>75	59		
Potassium	ppm	ASTM D5185(m)	>20	3		
	ppiii	AGTIVI DJ103(III)		J		
Water	ppin	WC Method	>.2	NEG		
Water Silt	scalar			-		
		WC Method	>.2	NEG	 	
Silt	scalar	WC Method Visual*	>.2 NONE	NEG NONE	 	
Silt Debris	scalar scalar	WC Method Visual* Visual*	>.2 NONE NONE	NEG NONE NONE		
Silt Debris Sand/Dirt	scalar scalar scalar	WC Method Visual* Visual* Visual*	>.2 NONE NONE NONE	NEG NONE NONE NONE		
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method Visual* Visual* Visual* Visual*	>.2 NONE NONE NORE	NEG NONE NONE NONE NORML		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>.2 NONE NONE NORML	NEG NONE NONE NORML NORML NEG		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>.2 NONE NONE NORML NORML >.2	NEG NONE NONE NORML NORML NEG	 	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2	NEG NONE NONE NORML NORML NEG 4 33		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15	NEG NONE NONE NORML NORML NEG 4 33	 	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2	NEG NONE NONE NORML NORML NEG 4 33 1 5		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0	NEG NONE NONE NORML NORML NEG 4 33 1 5 3		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0	NEG NONE NONE NORML NORML NEG 4 33 1 5 3 1 3 1		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0 0	NEG NONE NONE NORML NORML NEG 4 33 1 5 3 1 5 3 1 3 13		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0 0 5 600	NEG NONE NONE NORML NORML NEG 4 33 1 5 3 1 1 5 3 1 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 1 3		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0 0 5 600 0 0	NEG NONE NONE NORML NORML NEG 4 33 1 5 3 13 136 412 51		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>.2 NONE NONE NORML NORML >.2 15 0 0 0 5 600	NEG NONE NONE NORML NORML NEG 4 33 1 5 3 1 1 5 3 1 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 1 3		

Visc @ 40°C cSt ASTM D7279(m) 140 (A 68.8

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