WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ABNORMAL

ACELA TECUMSEH SUPPORT #2

Component Front Differential

CHEVRON DELO GEAR ESI OIL 80W90 (G	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0766740		
	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		
WEAR	Iron	ppm	ASTM D5185(m)	>500	89		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>10	2		
	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	2		
	Lead	ppm	ASTM D5185(m)	>25	<1		
	Copper	ppm	ASTM D5185(m)		3		
	Tin	ppm	ASTM D5185(m)	>10	0		
	Vanadium	ppm	ASTM D5185(m)	NONE	0 NONE		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>75	28		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1		
	Water		WC Method	>.2	NEG		
	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*	>.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
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.	Boron	ppm	ASTM D5185(m)	15	35		
	Barium	ppm	ASTM D5185(m)	0	3		
	Molybdenum	ppm	ASTM D5185(m)	0	6		
	Manganese	ppm	ASTM D5185(m)		13		
	Magnesium	ppm	ASTM D5185(m)	0	14		
	Calcium	ppm	ASTM D5185(m)	5	110		
	Phosphorus	ppm	\ /	600	437		
	Zinc	ppm	ASTM D5185(m)		52		
	Sulfur	ppm	ASTM D5185(m)		15494		
	Acid Number (AN)	mg KOH/g	ASTM D974*		0.93		
	Visc @ 40°C	cSt	ASTM D7279(m)	140	66.5		





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0766740

: 02547378 : 5552388

Recieved Diagnosed : 24 Mar 2023

: 24 Mar 2023 Diagnostician : Kevin Marson

Test Package : MOB 2 (Additional Tests: TAN Man) 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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