

OIL ANALYSIS REPORT

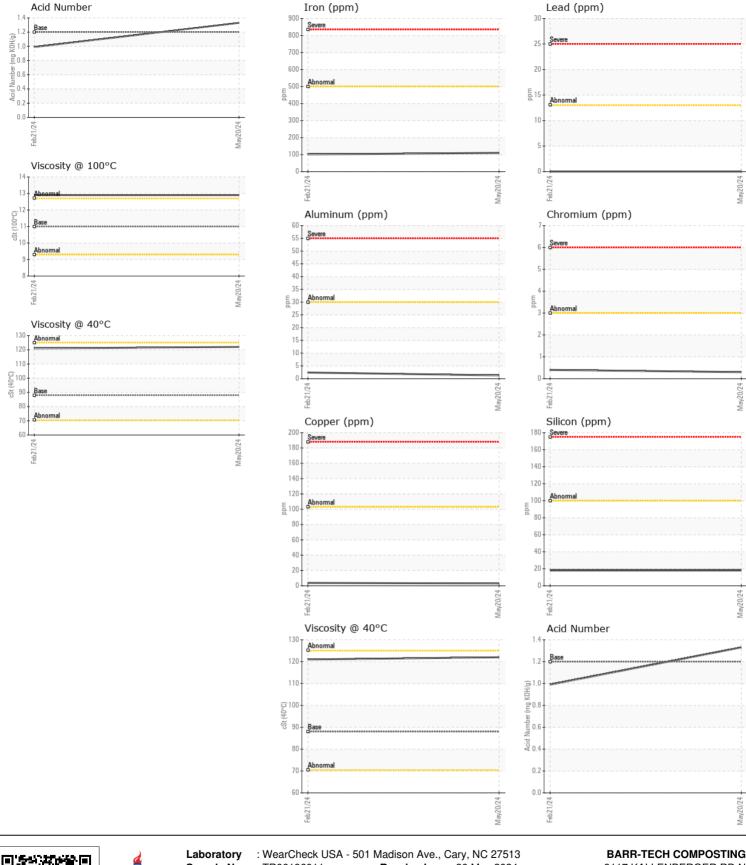
Machine Id **CATERPILLAR 966H 966H-L05 A6D02689** Component Front Differential Fluid CHEVRON DELO TOROFORCE SAE 30 (--- GAL)

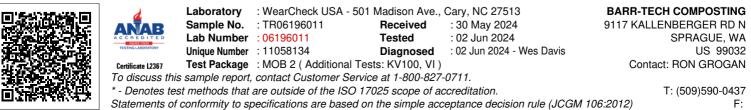
CHEVRON DELO TORQFORCE SAE 30 (G/	4 L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06196011	TR06119696	
	Sample Date		Client Info		20 May 2024	21 Feb 2024	
	Machine Age	hrs	Client Info		17655	17442	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>500	110	101	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	<1	<1	
	Nickel	ppm	ASTM D5185m	>3	0	0	
	Titanium	ppm	ASTM D5185m	>2	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>30	1	2	
	Lead	ppm	ASTM D5185m	>13	0	0	
	Copper	ppm	ASTM D5185m	>103	3	4	
	Tin	ppm	ASTM D5185m	>5	0	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	18	18	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	
	Water		WC Method	>.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		<1	0	
	Boron	ppm	ASTM D5185m	4	4	4	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		21	20	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m	13	15	15	
	Calcium	ppm	ASTM D5185m		3310	3253	
	Phosphorus	ppm	ASTM D5185m		929	920	
	Zinc	ppm	ASTM D5185m		1116	1090	
	Sulfur	ppm	ASTM D5185m		6174	5717	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.33	0.99	
	Visc @ 40°C	cSt	ASTM D445		122	121	
	Visc @ 100°C	cSt	ASTM D445	11	12.9	12.9	

Viscosity Index (VI) Scale ASTM D2270 110

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Contact/Location: RON GROGAN - BARSPRWA Page 2 of 2