OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

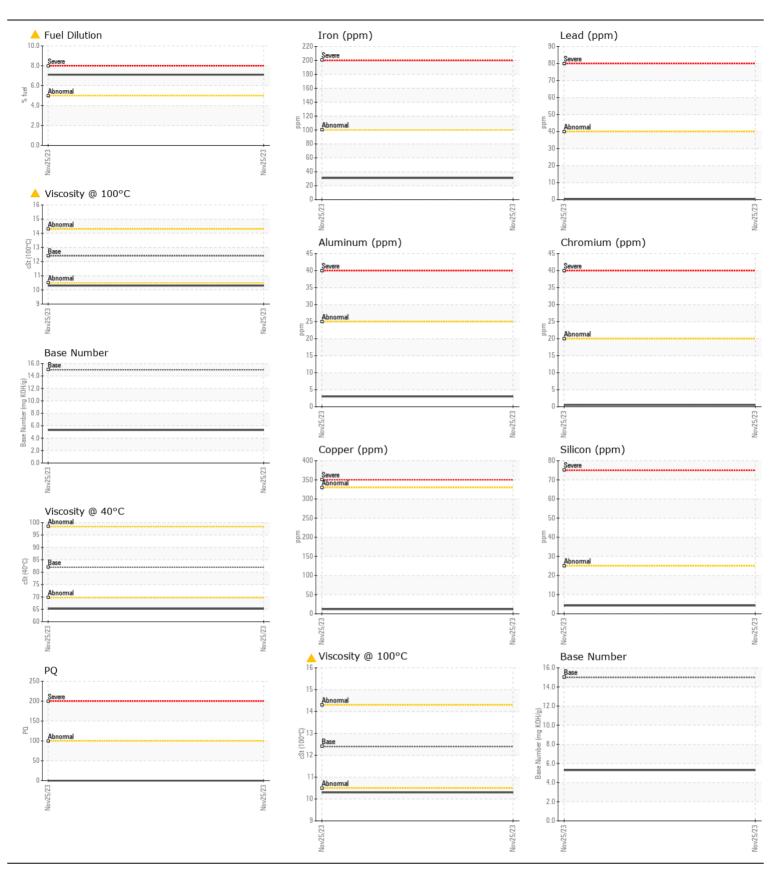
NORMAL ABNORMAL ABNORMAL

CATERPILLAR 5695-17

Component Diesel Engine

TRC PRO-SPEC III SAE 10W30 (51 LTR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
M	Sample Number		Client Info		TR02606885		
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		25 Nov 2023		
	Machine Age	hrs	Client Info		1487		
	Oil Age	hrs	Client Info		835		
	Filter Age	hrs	Client Info		835		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status		0.101.10		ABNORMAL		
WEAR	PQ		ASTM D8184*		0		
	Iron	ppm	ASTM D5185(m)	>100	31		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1		
	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		3		
	Lead	• • • • • • • • • • • • • • • • • • • •	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)	>330	12		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium		ASTM D5185(m)	>10	0		
	White Metal	ppm	Visual*	NONE	NONE		
	Yellow Metal	scalar scalar	Visual*	NONE	NONE		
		Sudiai	Visuai	INOINL	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4		
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		1		
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D7593*	>5	7.1		
	Water		WC Method		NEG		
	Glycol		WC Method	70.L	NEG		
	Soot %	%	ASTM D7844*	\3	0.3		
	Nitration	Abs/cm	ASTM D7624*	>20	12.7		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.5		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance		Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.2	NEG		
					INLO		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4		
1 2012 CONTINUE	Boron	ppm	ASTM D5185(m)		17		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		80		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		124		
	Calcium	ppm	ASTM D5185(m)	4500	1916		
	Phosphorus	ppm	ASTM D5185(m)		879		
	Zinc	ppm	ASTM D5185(m)	1400	1044		
	Sulfur	ppm	ASTM D5185(m)		3057		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	22.8		
	Base Number (BN)				5.30		
	Visc @ 40°C	cSt	ASTM D7279(m)	82	65.2		
	Visc @ 100°C	cSt	ASTM D7279(m)		<u>▲</u> 10.3		
	Viscosity Index (VI)		,	150	145		
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CALA ISO 17025:2017 Accredited

Laboratory

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

: TR02606885 : 02606885

: 5707971

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

: 08 Jan 2024 : 10 Jan 2024 Diagnostician : Wes Davis

3031 ARTHUR ST ROSSLYN, ON CA P7K 0P2 Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, PQ, VI, Visual) Contact: David Cramer

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) T: (807)475-5951 F: (807)475-8619

WILCO CONTRACTORS