

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

**OIL ANALYSIS REPORT** 

## Machine Id CATERPILLAR 486 Component Diesel Engine Fluid TRC MOLY XL PRO-SPEC IV 15W40 (42 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	0.0111	Client Info		TR06158499		
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Dec 2023		
	Machine Age	hrs	Client Info		184981		
	Oil Age	hrs	Client Info		20000		
	Filter Age	hrs	Client Info		10000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>75	16		
	Chromium	ppm	ASTM D5185m	>4	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>54	4		
	Lead	ppm	ASTM D5185m	>20	<1		
	Copper	ppm	ASTM D5185m	>240	6		
	Tin	ppm	ASTM D5185m	>5	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		12		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	12.0		
	Sulfation	Abs/.1mm	*ASTM D7415		26.8		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		ہ <1		
	Molybdenum	ppm	ASTM D5185m		150		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		22		
	Calcium	ppm	ASTM D5185m	1300	4361		
	Phosphorus	ppm	ASTM D5185m	1000	959		
	Zinc	ppm	ASTM D5185m	1300	1062		
	Sulfur	ppm	ASTM D5185m	1000	4360		
	Oxidation	Abs/.1mm	*ASTM D3103111 *ASTM D7414	>25	15.3		
	Base Number (BN)				10.39		
				14	10.39		

Visc @ 100°C cSt

ASTM D445 15.5

15.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **DIGGING & RIGGING II** Sample No. Received **10 CHRISTINA COURT** : TR06158499 : 23 Apr 2024 Lab Number : 06158499 SPARROWS POINT, MD Tested : 24 Apr 2024 Unique Number : 10993922 : 24 Apr 2024 - Wes Davis US 21219 Diagnosed Test Package : MOB 2 Contact: Service Manager Certificate L2367 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - DIGSPA Page 2 of 2

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