

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

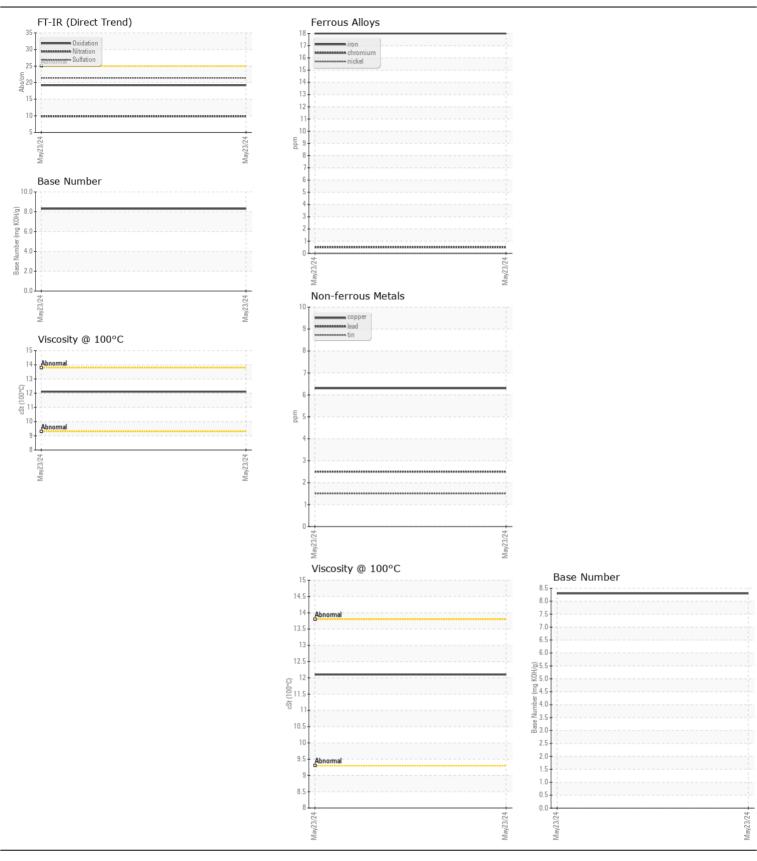


Machine Id **CATERPILLAR 992G 192759 (S/N AZX00829)**

Diesel Engine

CASTROL Vecton LD 10W30 (--- GAL)

CASTROL VECTOR LD 10W30 (
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0911557		
Resample at the next service interval to monitor.	Sample Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		45411		
	Oil Age	hrs	Client Info		260		
	Filter Age	hrs	Client Info		260		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		18		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>40	2		
	Copper	ppm	ASTM D5185m	>330	6		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTANUNATION					_		
CONTAMINATION	Silicon	ppm		>25	4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
The to the medication of any contamination in the only	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	21	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415		21.4		
	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		4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		61		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		65		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		1142		
	Calcium	ppm	ASTM D5185m		1143		
	Phosphorus	ppm	ASTM D5185m		1194		
	Zinc	ppm	ASTM D5185m		1393		
	Sulfur	ppm	ASTM D5185m		4168		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2		
	Base Number (BN)		ASTM D2896		8.3		
	Visc @ 100°C	cSt	ASTM D445		12.1		
			2		··		







Certificate L2367

Laboratory Sample No.

: WC0911557 Lab Number : 06195091 Unique Number : 11057214

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 30 May 2024 : 31 May 2024 : 31 May 2024 - Wes Davis

MARTIN MARIETTA 10000 BEAVER DAN RD, BLDG 7 COCKEYSVILLE, MD

US 21030 Contact: COREY GREENE

corey.greene@martinmarietta.com T: (410)568-7685

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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) F: (410)568-7689 Submitted By: COREY GREENE