

MINI EX2123 (S/N 0CB5024

Machine Id **CATERPILLAR 303.5 MINI EX2123 (S/N 0CR502472)** Component **Diesel Engine** Fluid

DURALENE Dura-Max Xtreme 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		DC0031326	DC0028889	DC0027527
	Sample Date		Client Info		11 Jul 2024	07 Nov 2023	20 Sep 2023
	Machine Age	hrs	Client Info		4530	4160	4050
	Oil Age	hrs	Client Info		0	110	500
	Filter Age	hrs	Client Info		0	110	500
	Oil Changed		Client Info		N/A	Not Changd	Changed
	Filter Changed		Client Info		N/A	Not Changd	Changed
	Sample Status				MARGINAL	SEVERE	SEVERE
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	8	2	27
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	1	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	0	2
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	7
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		<1	0	0
	Fuel	%	ASTM D3524	>5	2.8	▲ 14.3	▲ 18.8
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.7	12.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.3	23.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	3
	Boron	ppm	ASTM D5185m		19	59	38
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		58	45	48
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		855	404	479
	Calcium	ppm	ASTM D5185m		1387	1467	1659
	Phosphorus	ppm	ASTM D5185m		1114	683	836
	Zinc	ppm	ASTM D5185m		1352	921	1071
	Sulfur	ppm	ASTM D5185m		4015	2642	2662
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.4	24.8
	Base Number (BN)				10.36	8.85	7.15
		0°t	ASTM D445		12.5	A 0.5	A 0.1

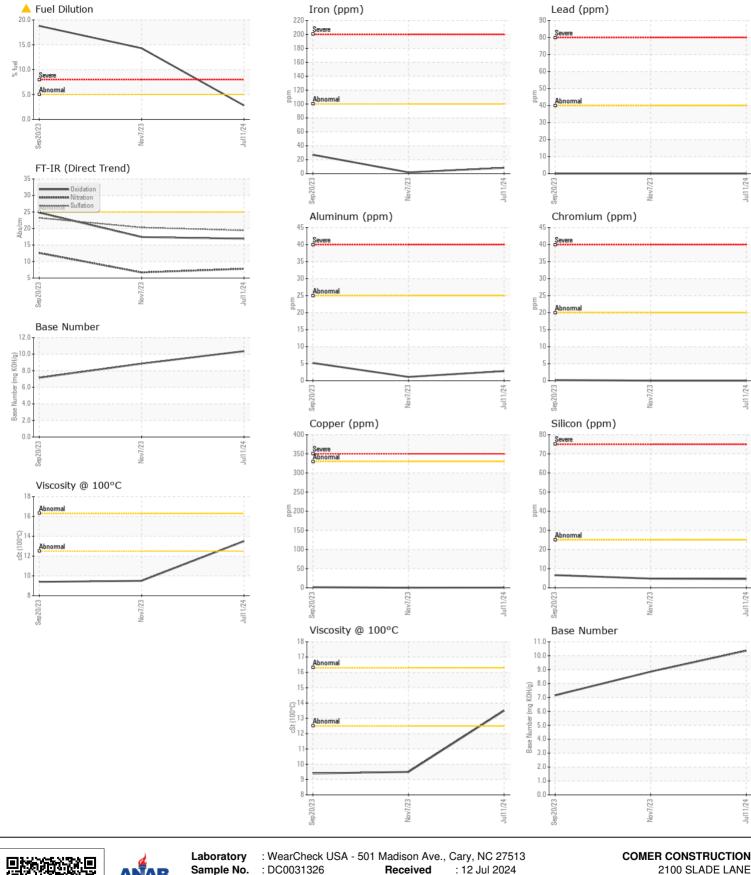
Visc @ 100°C cSt

ASTM D445

9.4

9.5

13.5



Sample No. Received 2100 SLADE LANE : DC0031326 : 12 Jul 2024 Lab Number : 06235134 Tested : 16 Jul 2024 FOREST HILL, MD : 16 Jul 2024 - Wes Davis US 21050 Unique Number : 11123968 Diagnosed Test Package : MOB 2 (Additional Tests: PercentFuel) Contact: DONALD FOX Certificate L2367 dfox@comerconstruction.com 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. T: (443)269-1379 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)638-0289