

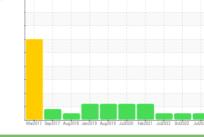
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



CONSTRUCTORS, INC CATERPILLAR 1717 Component





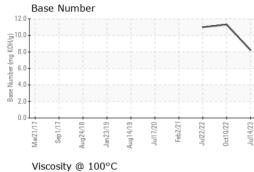
Diesel Engine Fluid

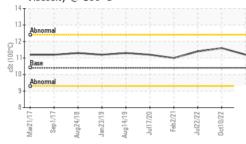
MOBIL CLEAN 10W30 5000 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		SBP0004542	SBP0002075	SBP0001465
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jul 2023	10 Oct 2022	22 Jul 2022
Wear	Machine Age	hrs	Client Info		8806	7957	7333
All component wear rates are normal.	Oil Age	hrs	Client Info		534	624	517
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>5	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	WEAR METALS		method	limit/base		history1	history2
	Iron Chromium	ppm	ASTM D5185m		26	10	8
	Nickel	ppm	ASTM D5185m		<1	<1	<1
		ppm	ASTM D5185m		<1 <1	0	0
	Titanium	ppm	ASTM D5185m			0	0
	Silver Aluminum	ppm	ASTM D5185m		0	0	<1 2
		ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		4	37	52
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		59	42	40
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		976	579	572
	Calcium	ppm	ASTM D5185m		1243	1608	1717
	Phosphorus	ppm	ASTM D5185m		1045	784	788
	Zinc	ppm	ASTM D5185m		1318	951	945
	Sulfur	ppm	ASTM D5185m		3730	3033	3253
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	5	4
	Sodium	ppm	ASTM D5185m		6	0	4
	Potassium	ppm	ASTM D5185m	>20	3	0	<1
	Chlorine	ppm	ASTM D5185m				
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.1	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	22.9	22.8
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	20.4	20.3
	Base Number (BN)			-	8.2	11.3	11.0
			Den Blood				

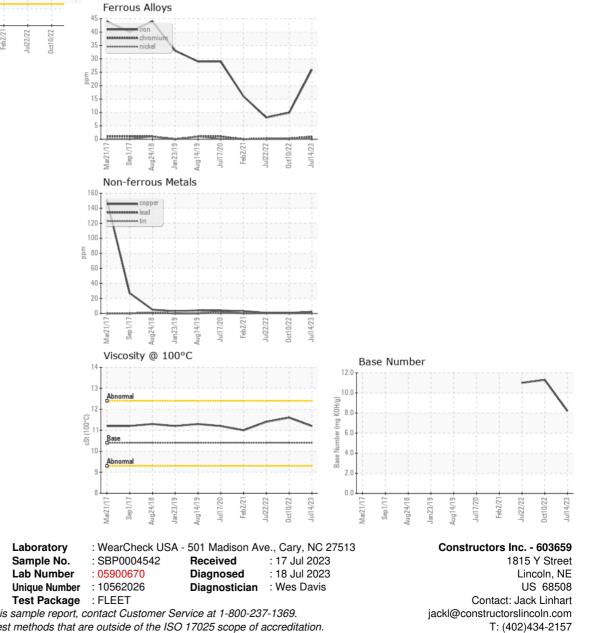


OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.4	11.2	11.6	11.4
GRAPHS						





Certificate L2367 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)

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