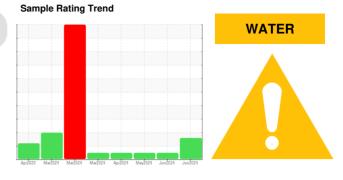


OIL ANALYSIS REPORT





Machine Id **CATERPILLAR 980M L56**

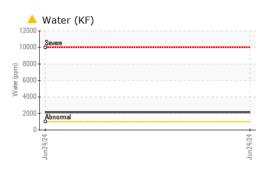
Component Hydraulic System

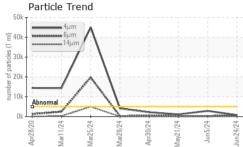
AMERICAN CHEMICAL TECH. ECOSAFE FR-46 (--- GAL)

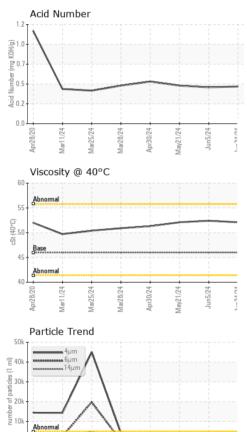
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PCA0123730	PCA0123796	PCA0123760
Oil and filter change at the time of sampling has	Sample Date		Client Info		24 Jun 2024	05 Jun 2024	21 May 2024
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		17776	17415	17212
to monitor. (Customer Sample Comment:	Oil Age	hrs	Client Info		1000	0	866
Brake/Fan pump failure)	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Wear All component wear rates are normal.	Sample Status				ABNORMAL	NORMAL	NORMAL
Contamination	WEAR METAL	S	method	limit/base	current	history1	history2
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.	Iron	ppm	ASTM D5185m	>20	12	7	2
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	1	<1	<1
	Lead	ppm	ASTM D5185m	>10	0	0	0
	Copper	ppm	ASTM D5185m	>75	36	19	16
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		2	1	<1
	Calcium	ppm	ASTM D5185m		6	8	9
	Phosphorus	ppm	ASTM D5185m		712	756	726
	Zinc	ppm	ASTM D5185m		95	63	49
	Sulfur	ppm	ASTM D5185m		2414	2251	2405
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	1	<1	0
	Sodium	ppm	ASTM D5185m		1	<1	<1
	Potassium	ppm	ASTM D5185m	>20	2	1	<1
	Water	%	ASTM D6304	>0.1	6 0.213		
	ppm Water	ppm	ASTM D6304	>1000	A 2130		
	FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		757	2879	1117
	Particles >6µm		ASTM D7647		412	268	241
	Particles >14µm		ASTM D7647		70	13	24
	Particles >21µm		ASTM D7647		24	4	6
	Particles >38µm		ASTM D7647		4	1	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	19/15/11	17/15/12
	FLUID DEGRA			limit/base		history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.44	0.46



OIL ANALYSIS REPORT







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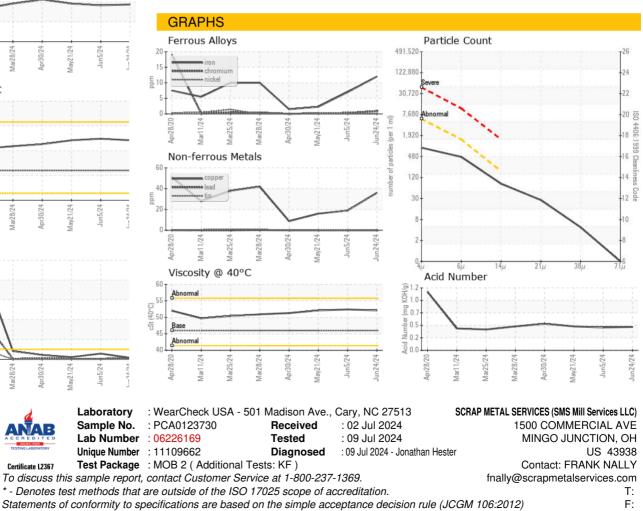
Anr.78/71

Mar11/24

Mar25/74

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	>0.1	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	52.1	52.4	52.1
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						

Bottom



Report Id: SCRMIN [WUSCAR] 06226169 (Generated: 07/09/2024 11:07:38) Rev: 1

Submitted By: TIM RANDOLPH Page 2 of 2