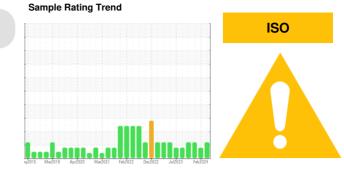


OIL ANALYSIS REPORT





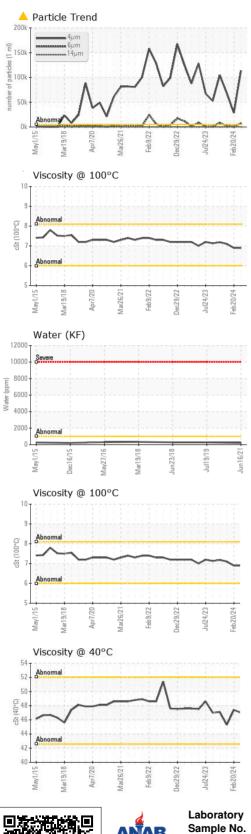
Area DE Samples - CAT LAB CATERPILLAR 980H LOADER 6821 (S/N JMS06208) Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		TO10003086	TO10002962	TO10003079
o corrective action is recommended at this time.	Sample Date		Client Info		08 May 2024	20 Feb 2024	28 Dec 2023
ne filter change at the time of sampling has been	Machine Age	hrs	Client Info		29374	28828	28570
ted. Resample at the next service interval to	Oil Age	hrs	Client Info		1848	1302	1044
onitor.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
ear I component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination	WEAR METALS		method	limit/base	current	history1	history2
ere is a high amount of silt (particulates < 14	Iron	ppm	ASTM D5185m	>20	11	8	7
nicrons in size) present in the oil.	Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Fluid Condition The AN level is acceptable for this fluid. The	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
ndition of the oil is suitable for further service.	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	9	8	7
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		6	5	5
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES	ppin	method	limit/base		history1	history2
				IIIIII/Dase			
	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		2	1	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		182	155	181
	Calcium	ppm	ASTM D5185m		279	225	239
	Phosphorus	ppm	ASTM D5185m		880	622	755
	Zinc	ppm	ASTM D5185m		969	795	943
	Sulfur	ppm	ASTM D5185m		3262	2399	2818
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	15	12	10
	Sodium	ppm	ASTM D5185m		<1	6	4
	Potassium	ppm	ASTM D5185m	>20	4	<1	<1
	Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	A 113421	28468	▲ 68353
	Particles >6µm		ASTM D7647	>1300	🔺 7437	285	🔺 2535
	Particles >14µm		ASTM D7647	>160	103	17	14
	Particles >21µm		ASTM D7647	>40	20	5	4
				10	4	0	4
	Particles >38µm		ASTM D7647	>10	1	0	1
			ASTM D7647 ASTM D7647		1	0	0
	Particles >38µm		ASTM D7647		1		
	Particles >38µm Particles >71µm	ATION	ASTM D7647	>3	1 ▲ 24/20/14	0	0

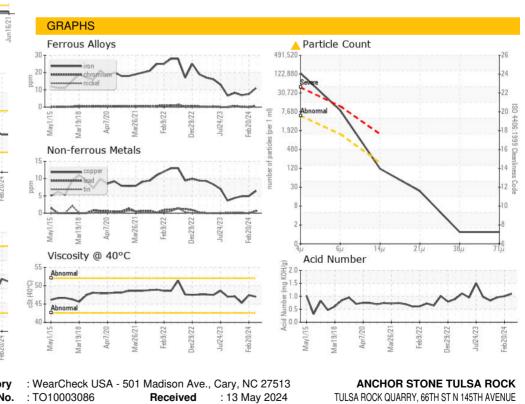


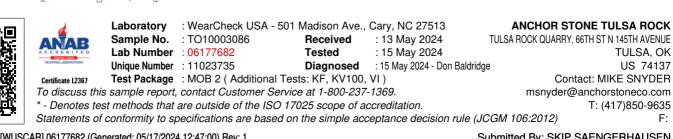
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		47.0	47.4	45.3
Visc @ 100°C	cSt	ASTM D445		6.9	6.9	7.1
Viscosity Index (VI)	Scale	ASTM D2270		101	100	115
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom





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Submitted By: SKIP SAENGERHAUSEN

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