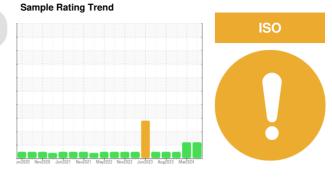


## **OIL ANALYSIS REPORT**

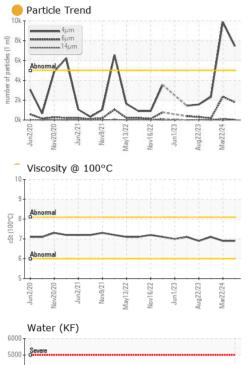


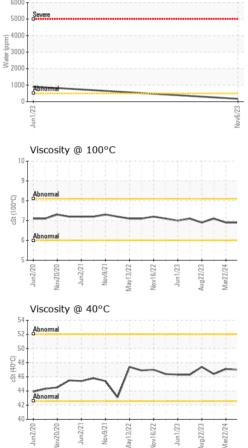
Machine Id CATERPILLAR 990K 6088 (S/N A9P00362) Component Hydraulic System Fluid TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (52 GAL)

DIAGNOSIS	SAMPLE INFORM	NOITAN					
Recommendation	Sample Number		Client Info		TO10003614	TO10002084	TO10002895
lo corrective action is recommended at this time.	Sample Date		Client Info		13 Jun 2024	22 Mar 2024	06 Nov 2023
he filter change at the time of sampling has been	Machine Age	hrs	Client Info		15988	15159	14829
oted. Resample at the next service interval to	Oil Age	hrs	Client Info		829	15159	3594
nonitor.	Oil Changed		Client Info		Not Changd	Changed	Not Changd
<b>/ear</b> Il component wear rates are normal.	Sample Status				ATTENTION	ATTENTION	NORMAL
Contamination	WEAR METALS		method	limit/base	current	history1	history2
here is a moderate amount of silt (particulates <	Iron	ppm	ASTM D5185m	>20	2	<1	<1
14 microns in size) present in the oil.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
luid Condition	Nickel	ppm	ASTM D5185m	>20	<1	0	0
he AN level is acceptable for this fluid. The	Titanium	ppm	ASTM D5185m		<1	0	0
condition of the oil is suitable for further service.	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	0	0
	Lead	ppm	ASTM D5185m	>20	<1	0	1
	Copper	ppm	ASTM D5185m	>20	2	<1	0
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		175	176	167
	Calcium	ppm	ASTM D5185m		176	198	154
	Phosphorus	ppm	ASTM D5185m		672	744	727
	Zinc	ppm	ASTM D5185m		920	894	883
	Sulfur	ppm	ASTM D5185m		2834	3194	2687
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	3	<1	2
	Sodium	ppm	ASTM D5185m		<1	3	1
	Potassium	ppm	ASTM D5185m	>20	3	0	1
	Water	%	ASTM D6304		NEG	NEG	0.017
	ppm Water	ppm	ASTM D6304				172.4
	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		<b>—</b> 7451	9886	2305
	Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1785	2351	163
	Particles >14µm		ASTM D7647	>160	34	135	8
	Particles >21µm		ASTM D7647	>40	3	24	3
	Particles >38µm		ASTM D7647		0	0	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		0/18/12	20/18/14	18/15/10
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

TULCO WEATERY

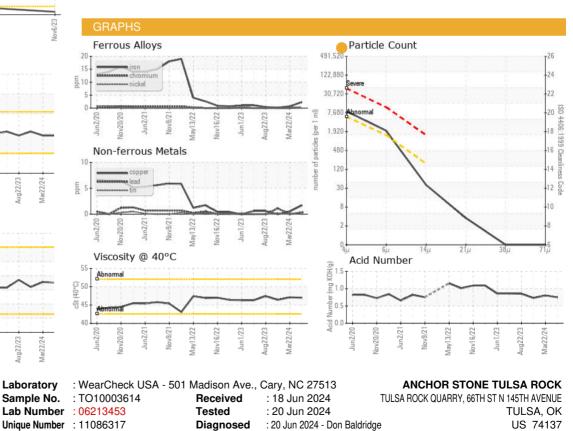
## **OIL ANALYSIS REPORT**





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	>0.05	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	47.1	46.4
Visc @ 100°C	cSt	ASTM D445		6.9	6.9	7.1
Viscosity Index (VI)	Scale	ASTM D2270		101	101	111
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						•

Bottom





Test Package : MOB 2 (Additional Tests: KF, KV100, VI) Certificate 12367 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)

US 74137 Contact: MIKE SNYDER msnyder@anchorstoneco.com T: (417)850-9635 F:

Report Id: ANCTUL [WUSCAR] 06213453 (Generated: 06/20/2024 14:51:09) Rev: 1

Laboratory

Sample No.

Submitted By: SKIP SAENGERHAUSEN