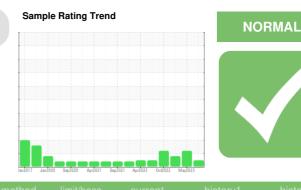


OIL ANALYSIS REPORT





Machine Id CATERPILLAR 775D HAUL TRUCK 6355 (S/N 6KR00297) Component Steering

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

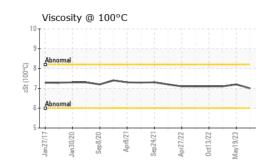
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

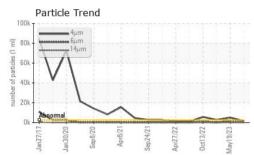
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002759	TO10002228	TO10001768
Sample Date		Client Info		09 Oct 2023	19 May 2023	06 Feb 2023
Machine Age	hrs	Client Info		48474	47928	47465
Oil Age	hrs	Client Info		3514	2968	2505
Oil Changed	1115	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0	<1	2
Chromium	ppm	ASTM D5185m	>12	0	<1	0
Nickel	ppm	ASTM D5185m	>6	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>4	0	<1	0
Lead	ppm	ASTM D5185m	>12	0	<1	0
Copper	ppm	ASTM D5185m	>30	5	4	5
Tin	ppm	ASTM D5185m		0	<1	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	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		97	104	90
Calcium	ppm	ASTM D5185m		129	126	129
Phosphorus	ppm	ASTM D5185m		748	768	825
Zinc	ppm	ASTM D5185m		1087	985	1055
Sulfur	ppm	ASTM D5185m		3181	3233	3293
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	<1	2	2
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1607	4818	2823
Particles >6µm		ASTM D7647	>640	354	1270	87
Particles >14µm		ASTM D7647	>80	17	56	2
Particles >21µm		ASTM D7647	>20	4	10	0
		AOTH DTO 47	>4	•	1	0
Particles >38µm		ASTM D7647	24	0	1	0
		ASTM D7647 ASTM D7647		0	0	0
Particles >38µm						
Particles >38µm Particles >71µm		ASTM D7647	>3	0	0	0
Particles >38µm Particles >71µm Oil Cleanliness	TION mg KOH/g	ASTM D7647 ISO 4406 (c)	>3 >18/16/13	0 18/16/11	0	0 19/14/9

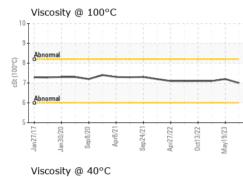
Submitted By: SKIP SAENGERHAUSEN

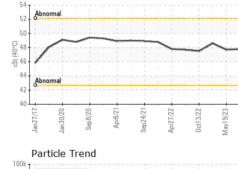


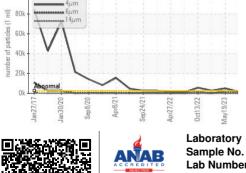
OIL ANALYSIS REPORT







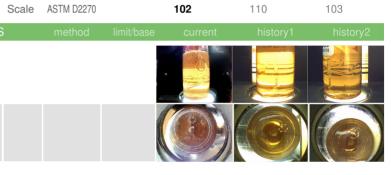


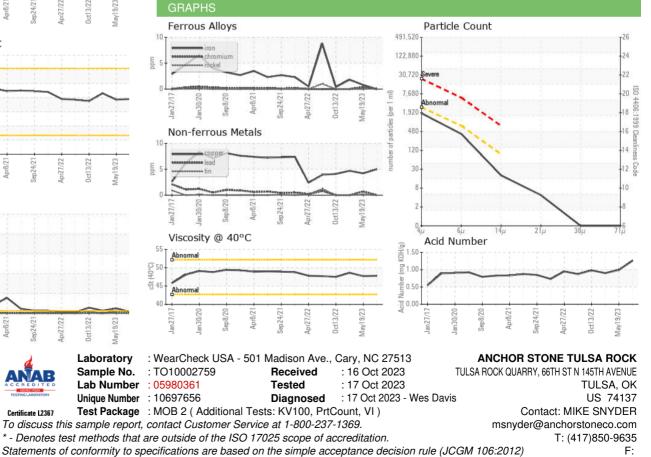


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		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		47.8	47.7	48.6
Visc @ 100°C	cSt	ASTM D445		7	7.2	7.1
Viscosity Index (VI)	Scale	ASTM D2270		102	110	103
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom





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Certificate L2367

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