

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



CATERPILLAR 990H LOADER 6572 (S/N BWX00474) Component

Steering

TULCO LUBSOIL SUPER I

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

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

YDRAULIC HZ 46 (GAL)	un2017 Jan20	18 May2018 Oct2018 Mar2	019 Jul2020 May2021 Jan2022 Au	g2022 Mar202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10001540	TO10001811	TO10001366
Sample Date		Client Info		06 Mar 2023	30 Nov 2022	26 Aug 2022
Machine Age	hrs	Client Info		29908	29411	28895
Oil Age	hrs	Client Info		3012	2515	1999
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ATTENTION	NORMAL	ABNORMAL
CONTAMINATIO	N	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	4	9	7
Chromium	ppm	ASTM D5185m	>12	2	2	2
Nickel	ppm	ASTM D5185m	>6	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>4	<1	0	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	2	2	2
Tin	ppm	ASTM D5185m		0	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	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		100	103	117
Calcium	ppm	ASTM D5185m		127	138	148
Phosphorus	ppm	ASTM D5185m		716	813	828
Zinc	ppm	ASTM D5185m		953	1010	1015
Sulfur	ppm	ASTM D5185m		3315	3434	2997
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	2	2	1
Sodium	ppm	ASTM D5185m		2	3	5
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	3641	911	▲ 8713
Particles >6µm		ASTM D7647	>640	773	124	▲ 1098
Particles >14μm		ASTM D7647	>80	43	10	73
Particles >21µm		ASTM D7647	>20	8	1	20
Particles >38μm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	1 9/17/13	17/14/10	<u>△</u> 20/17/13
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.95	1.02	1.01



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