

OIL ANALYSIS REPORT

Sample Rating Trend

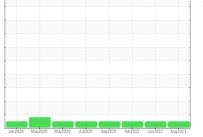
NORMAL



CATERPILLAR TUSCO 034 G6TE

Natural Gas Engine

ALPHA AXIOS SAE 40 (250 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jan2020 N	lay2020 May2020 Jul202	0 Sep2020 Feb2022 Jun2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0472479	WC0472396	WC0472394
Sample Date		Client Info		25 Aug 2023	09 Jun 2023	16 Feb 2022
Machine Age	hrs	Client Info		8642	8181	5000
Oil Age	hrs	Client Info		461	1500	1400
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	<1	<1	1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>10	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Antimony	ppm	ASTM D5185m				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	1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	10	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		4	<1	2
Calcium	ppm	ASTM D5185m		1221	1189	1298
Phosphorus	ppm	ASTM D5185m		274	229	266
Zinc	ppm	ASTM D5185m		339	290	345
Sulfur	ppm	ASTM D5185m		1014	982	979
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>300	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	4.5	5.3	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.3	13.3	14.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.0	8.0	8.5
Acid Number (AN)	mg KOH/g	ASTM D8045		0.54	0.51	0.50
Base Number (BN)	mg KOH/g	ASTM D2896		4.90	4.37	4.39
•	-					



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05961362 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 26 Sep 2023 : WC0472479 Received : 27 Sep 2023

Diagnosed : Wes Davis : 10662575 Diagnostician

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)

TUSCO HARDWOODS

10887 GERBER VALLEY RD NW SUGARCREEK, OH

> US 44681 Contact: JOE MILLER

tusco@ibyfax.com T: (330)852-4281

F: (330)852-9710