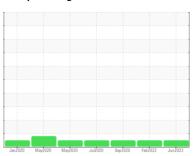


OIL ANALYSIS REPORT

Sample Rating Trend







CATERPILLAR TUSCO 034 G6TE

Component
Natural Gas Engine

ALPHA AXIOS SAE 40 LOW ASH (250 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

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.

			,			
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0472396	WC0472394	WCM2243301
Sample Date		Client Info		09 Jun 2023	16 Feb 2022	14 Sep 2020
Machine Age	hrs	Client Info		8181	5000	1558
Oil Age	hrs	Client Info		1500	1400	680
Oil Changed		Client Info		Changed	Not Changd	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	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m		<1	<1	6
Tin	ppm	ASTM D5185m	>5	0	0	<1
Antimony	ppm	ASTM D5185m			0	<1
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		1	<1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		10	<1	19
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		1189	1298	1304
Phosphorus	ppm	ASTM D5185m		229	266	280
Zinc	ppm	ASTM D5185m		290	345	342
Sulfur	ppm	ASTM D5185m		982	979	1033
CONTANINANTO						
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	method ASTM D5185m	limit/base >300	current	1	history2 2
Silicon	ppm	ASTM D5185m		<1	1	2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>300	<1 0	1 0	2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>300	<1 0 1	1 0 1	2 0 1
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>300 >20 limit/base	<1 0 1 current	1 0 1 history1	2 0 1 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>300 >20 limit/base	<1 0 1 current	1 0 1 history1	2 0 1 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>300 >20 limit/base >20	<1 0 1 current 0 5.3	1 0 1 history1 0 5.1	2 0 1 history2 0 4.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>300 >20 limit/base >20 >30	<1 0 1 current 0 5.3 13.3	1 0 1 history1 0 5.1 14.0	2 0 1 history2 0 4.3 13.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>300 >20 limit/base >20 >30 limit/base	<1 0 1 current 0 5.3 13.3	1 0 1 history1 0 5.1 14.0 history1	2 0 1 history2 0 4.3 13.3



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05961361 : 10662574 Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 26 Sep 2023 : WC0472396 Received : 27 Sep 2023 Diagnosed

: Wes Davis Diagnostician

TUSCO HARDWOODS 10887 GERBER VALLEY RD NW SUGARCREEK, OH US 44681

Contact: JOE MILLER tusco@ibyfax.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (330)852-4281 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (330)852-9710