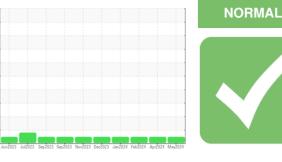


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **CATERPILLAR 374 10555 (S/N TNX10032)** Component **Right Final Drive**

SAMPLE INFORMATION method

Fluid {not provided} (--- GAL)

Birtartoolo

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

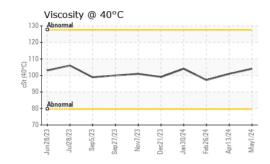
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913096	WC0913235	WC0888138
Sample Date		Client Info		01 May 2024	13 Apr 2024	26 Feb 2024
Machine Age	hrs	Client Info		5527	5200	4395
Oil Age	hrs	Client Info		327	796	492
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	I	method	limit/base	current	history1	history2
	•					
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	13	17	8
Chromium	ppm	ASTM D5185m	>10	<1	2	0
Nickel	ppm	ASTM D5185m	>5	2	5	2
Titanium	ppm	ASTM D5185m	>15	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>75	2	1	<1
Lead	ppm	ASTM D5185m	>10	0	1	0
Copper	ppm	ASTM D5185m	>75	10	19	10
Tin	ppm	ASTM D5185m	>8	<1	2	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		204	176	114
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	4	10
Manganese	ppm	ASTM D5185m		0	1	0
Magnesium	ppm	ASTM D5185m		5	15	66
Calcium	ppm	ASTM D5185m		108	327	1323
Phosphorus	ppm	ASTM D5185m		408	475	742
Zinc	ppm	ASTM D5185m		31	113	495
Sulfur	ppm	ASTM D5185m		3519	2450	3216
CONTAMINANTS		method	limit/base	current	biotonut	history2
Silicon	maa	ASTM D5185m	>400	20	14	
	ppm mag		>400		14	6
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		20		6
Sodium		ASTM D5185m ASTM D5185m	>20	20 0 2	14 <1 3	6 1 4
Sodium Potassium VISUAL	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	20 0 2 current	14 <1 3 history1	6 1 4 history2
Sodium Potassium VISUAL White Metal	ppm ppm scalar	ASTM D5185m ASTM D5185m method *Visual	>20 limit/base NONE	20 0 2 current NONE	14 <1 3 history1 NONE	6 1 4 history2 NONE
Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m method *Visual *Visual	>20 limit/base NONE NONE	20 0 2 current NONE NONE	14 <1 3 history1 NONE NONE	6 1 4 history2 NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 limit/base NONE NONE NONE	20 0 2 current NONE NONE NONE	14 <1 3 history1 NONE NONE NONE	6 1 4 history2 NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE	20 0 2 current NONE NONE NONE NONE	14 <1 3 history1 NONE NONE NONE NONE	6 1 4 NONE NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE NONE	20 0 2 current NONE NONE NONE NONE NONE	14 <1 3 history1 NONE NONE NONE NONE NONE	6 1 4 NONE NONE NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE NONE	20 0 2 current NONE NONE NONE NONE NONE NONE	14 <1 3 history1 NONE NONE NONE NONE NONE	6 1 4 NONE NONE NONE NONE NONE NONE NONE
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 Imit/base NONE NONE NONE NONE NONE NONE NORE	20 0 2 current NONE NONE NONE NONE NONE NONE NORML	14 <1 3 history1 NONE NONE NONE NONE NONE NONE NONE	6 1 4 NONE NONE NONE NONE NONE NONE NONE NO
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 Imit/base NONE NONE NONE NONE NONE NONE NORML NORML	20 0 2 current NONE NONE NONE NONE NONE NORE NORML	14 <1 3 history1 NONE NONE NONE NONE NONE NORE NORML NORML	6 1 4 NONE NONE NONE NONE NONE NONE NONE NO
Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 Imit/base NONE NONE NONE NONE NONE NONE NORE	20 0 2 current NONE NONE NONE NONE NONE NONE NORML	14 <1 3 history1 NONE NONE NONE NONE NONE NONE NONE	6 1 4 NONE NONE NONE NONE NONE NONE NONE NO

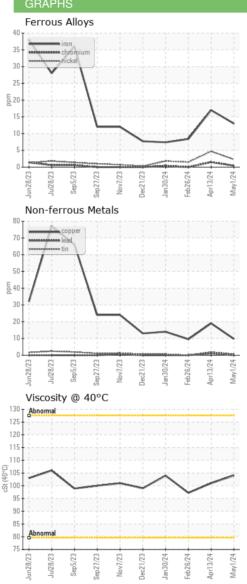
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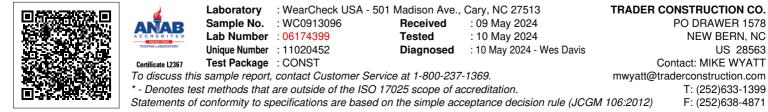


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		104	101	97.2
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image





Contact/Location: MIKE WYATT - TRANEW