

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id CATERPILLAR 963K TL3631 (S/N 0LBL00127) Component Left Final Drive

Fluid CAT TDTO SAE 50 (--- 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	/ IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DC0033841		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		2543		
Oil Age	hrs	Client Info		2543		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	115		
Chromium	ppm	ASTM D5185m	>10	3		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>15	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>75	5		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>8	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		4		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		33		
Calcium	ppm	ASTM D5185m	2980	2861		
Phosphorus	ppm	ASTM D5185m	1100	1114		
Zinc	ppm	ASTM D5185m	1270	1252		
Sulfur	ppm	ASTM D5185m		13386		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	28		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.59		



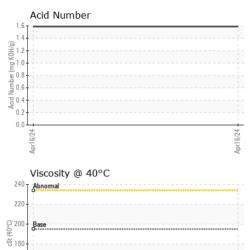
160. Abnorma

140

Apr16/24

OIL ANALYSIS REPORT

VISUAL



White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE		
Precipitate Silt Debris	scalar	*Visual				
Silt Debris			NONE	NONE		
Debris	scalar					
		*Visual	NONE	NONE		
	scalar	*Visual	NONE	NONE		
Sanu/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water						
			Provide Anna anna		to be the second	history O
					nistory i	history2
Visc @ 40°C	cSt	ASTM D445	195	163		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
				Ŭ	Ŭ	Ū
Bottom				no image	no image	no image
	_					
2000			31			
Severe						
1000 - Abnormal			^a 10	0 - Abnormal		
0						
r16/2			r16/2	r16/2		4 6 9 9
			Ap	-		*
			31		pm)	
-				00000		
100 + Abnormal			^a 10	0 - Abnormal		
0				0		
r16/2			r16/2	r16/2		
			Ap			
Copper (ppm)			100	Silicon (ppm)		
100 - Abnormal			톱 50	0 - Abnormal		
0						
pr16/2			pr16/2	pr16/2		
Viscosity @ 40°C			B/HO 2.0	Acia Number		
			y Bu)			
Abnormal		nnnnnnnnnnnn	алаа - b 1.0 - д	U †		
100				04		
r16/2			r16/2 Ac	r16/2		
AF			Ar	Ar		
: DC0033841 : 06152643 : 10982721 : MOB 2 contact Customer Servic	Recei Teste Diagn	ved : 17 d : 18 losed : 18	Apr 2024 Apr 2024 Apr 2024 - W 9.	les Davis	2100 FOR Contact: dfox@comerco	NSTRUCTION SLADE LAN REST HILL, MI US 2105 DONALD FO INStruction.cor (443)269-137
	Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Iron (ppm) Copper (ppm)	FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Iron (ppm) Severe Anormal Oper (ppm) Copper (ppm) Oper (ppm) Severe Anormal Oper (ppm) Oper (ppm) Severe Anormal Oper (ppm) Oper (ppm)<	FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom Image: Color (ppm) Iron (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm) Image: Color (ppm)	FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D445 195 SAMPLE IMAGES method limit/base Color Imit/base Bottom Imit/base QRAPHS Iron (ppm) Iron (ppm) Imit/base Aluminum (ppm) Imit/base Copper (ppm) Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base	FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 195 163 SAMPLE IMAGES method limit/base current Color no image Bottom no image GRAPHS no image Copper (ppm) Image Gramma Gramma Muminum (ppm) Gramma Gramma Gramma Image Gramma Image Gramma Image Gramma Image Gramma Image Gramma Image Image Image Ima	FLUID PROPERTIES method limit/base current history1 Visc @ 40°C cSt ASTM D445 195 163 SAMPLE IMAGES method imit/base current history1 Color no image no image no image Bottom no image no image no image GRAPHS Iron (ppm)

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Submitted By: DONALD FOX

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