

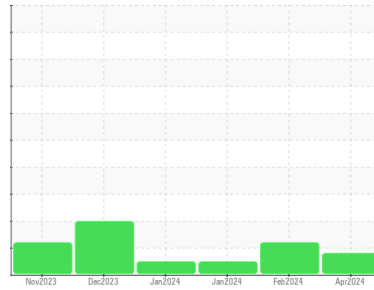


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR AD30 TRK227 (S/N 100016191)**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

Sample Rating Trend



FUEL



## DIAGNOSIS

### Recommendation

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

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0925833</b>	WC0884557	WC0899942
Sample Date	Client Info		<b>09 Apr 2024</b>	18 Feb 2024	19 Jan 2024
Machine Age	hrs	Client Info	<b>0</b>	1691	1271
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>MARGINAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>22</b>	33	35
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	4	11
Copper	ppm	ASTM D5185(m) >330	<b>4</b>	50	277
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>38</b>	31	35
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>38</b>	39	39
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m) 450	<b>498</b>	496	487
Calcium	ppm	ASTM D5185(m) 3000	<b>1692</b>	1682	1620
Phosphorus	ppm	ASTM D5185(m) 1150	<b>711</b>	725	711
Zinc	ppm	ASTM D5185(m) 1350	<b>840</b>	841	825
Sulfur	ppm	ASTM D5185(m) 4250	<b>2034</b>	2057	1995
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

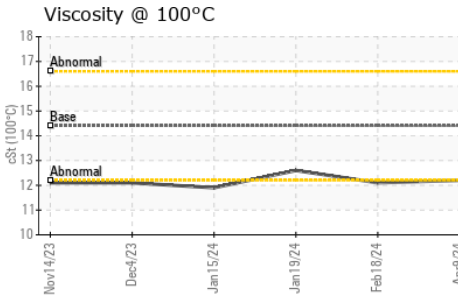
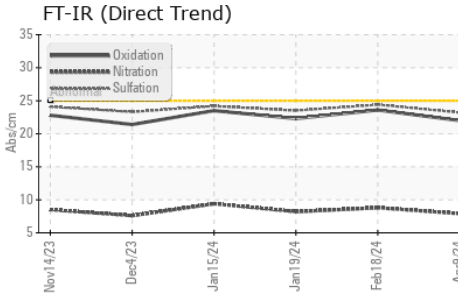
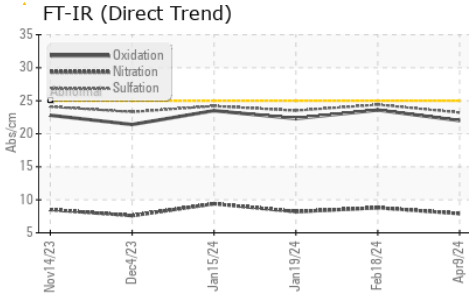
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	5	5
Sodium	ppm	ASTM D5185(m) >158	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Fuel	%	ASTM D7593* >5	<b>▲ 4</b>	▲ 5	<1.0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624* >20	<b>7.9</b>	8.8	8.2
Sulfation	Abs./1mm	ASTM D7415* >30	<b>23.2</b>	24.4	23.5



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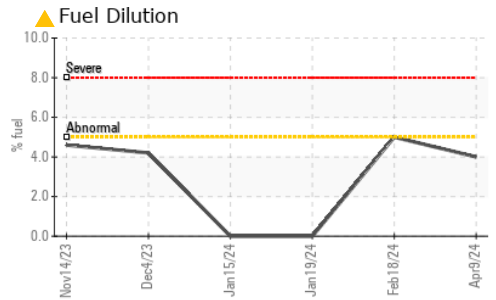
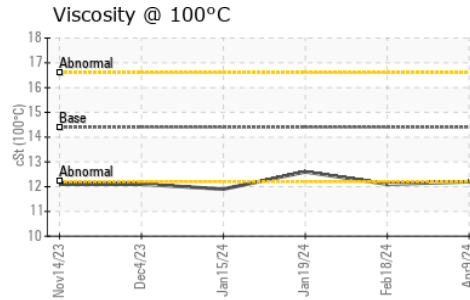
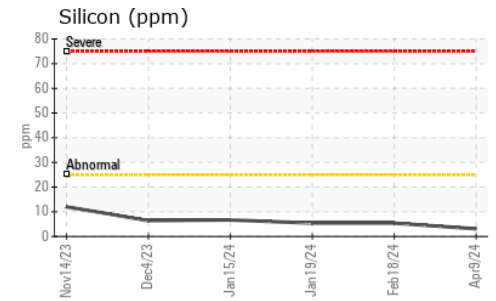
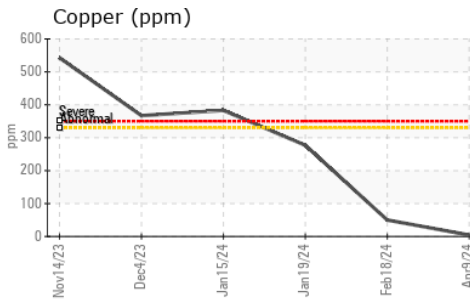
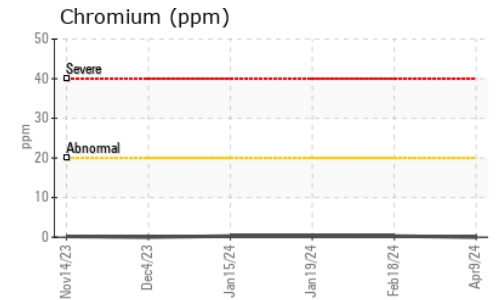
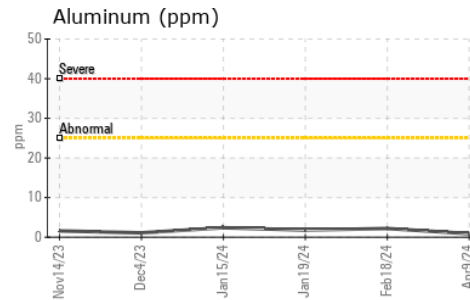
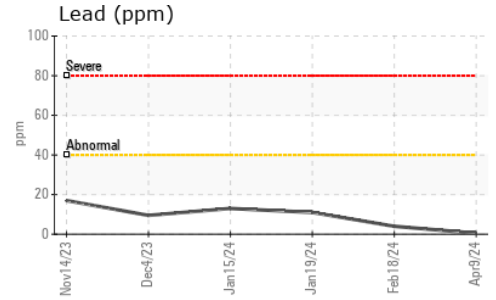
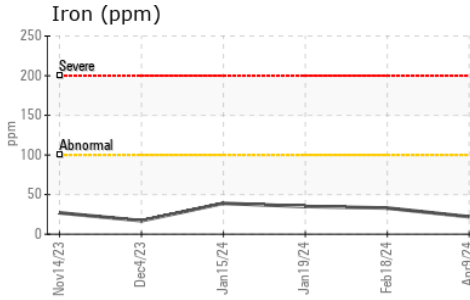


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	22.0	23.6	22.3

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.2	▲ 12.1	12.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925833  
**Lab Number** : 02628355  
**Unique Number** : 5761487  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.