



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0951781	WC0925833	WC0884557
Sample Date		Client Info		08 Jun 2024	09 Apr 2024	18 Feb 2024
Machine Age	hrs	Client Info		3202	0	1691
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	3	22	33
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	4
Copper	ppm	ASTM D5185(m)	>330	<1	4	50
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

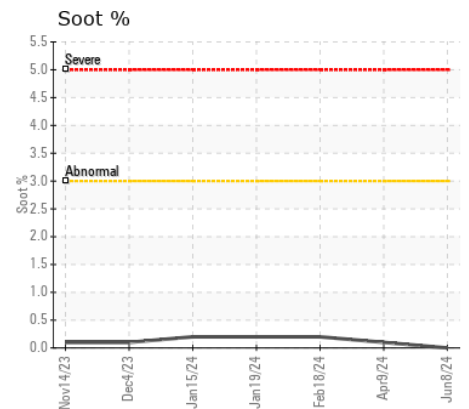
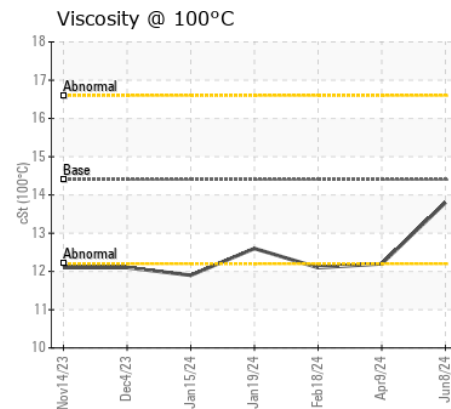
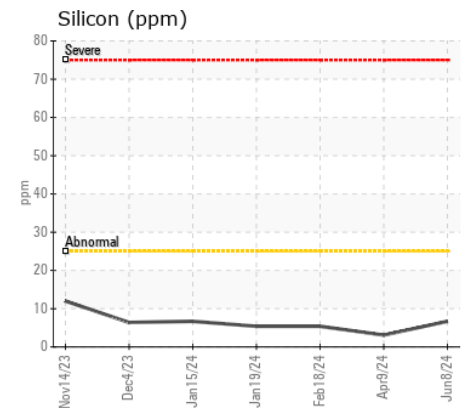
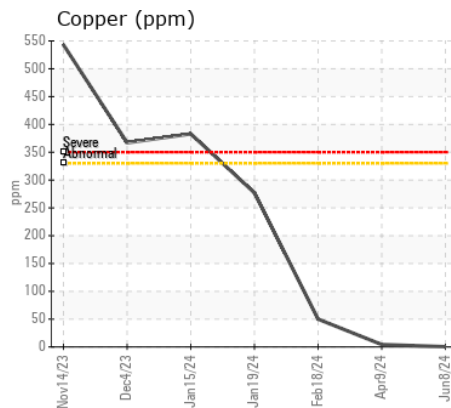
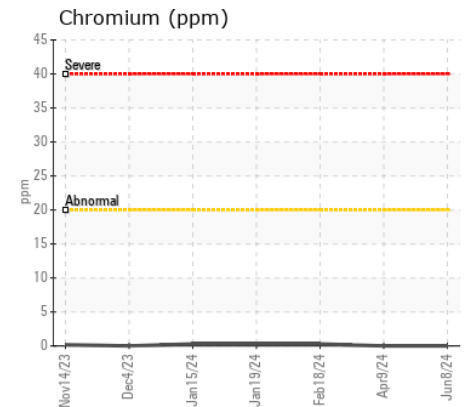
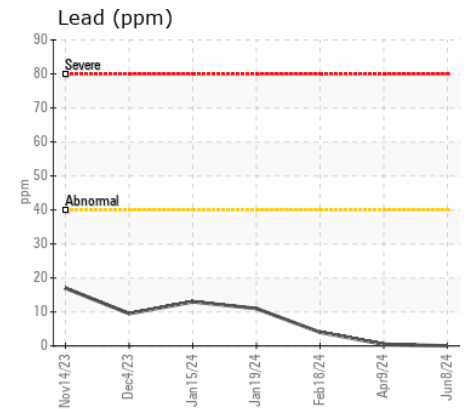
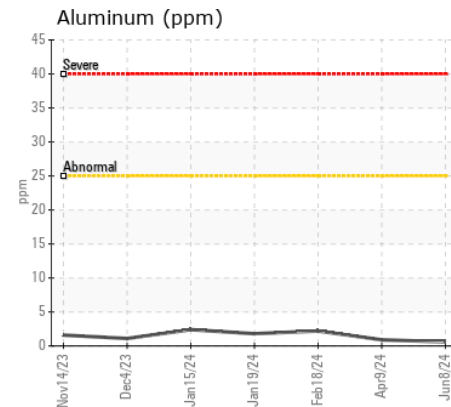
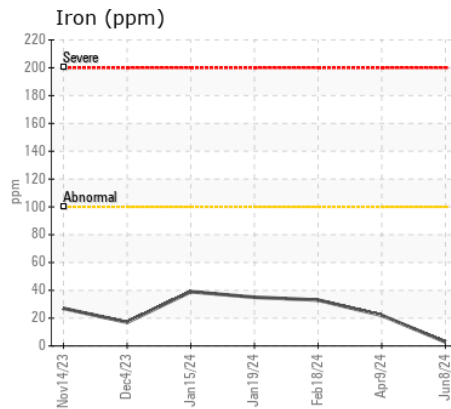
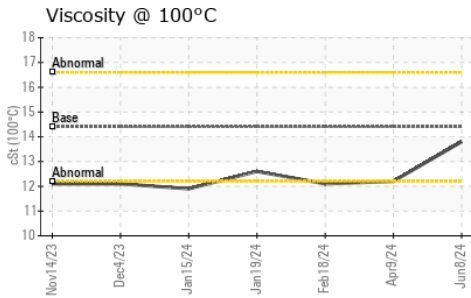
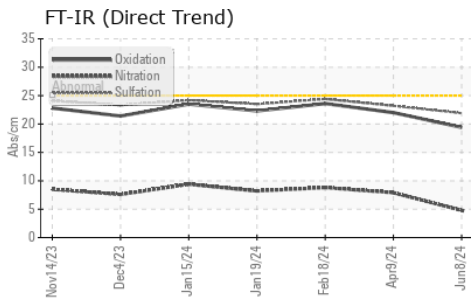
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	3	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	▲ 4	▲ 5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	4.8	7.9	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	23.2	24.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	2	2	2
Boron	ppm	ASTM D5185(m)	250	58	38	31
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	34	38	39
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)	450	457	498	496
Calcium	ppm	ASTM D5185(m)	3000	1526	1692	1682
Phosphorus	ppm	ASTM D5185(m)	1150	665	711	725
Zinc	ppm	ASTM D5185(m)	1350	783	840	841
Sulfur	ppm	ASTM D5185(m)	4250	1927	2034	2057
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	22.0	23.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	12.2	▲ 12.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0951781
Lab Number : 02641020
Unique Number : 5798559
Test Package : MOB 1

Received : 11 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Wes Davis

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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.