



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[39127]
 Machine Id
CATERPILLAR 6NZ68264
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0022687	CU0021840	CU0019488
Sample Date		Client Info		02 May 2024	07 Dec 2023	30 Dec 2022
Machine Age	kms	Client Info		158656	151907	913670
Oil Age	kms	Client Info		152000	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	68	53	48
Chromium	ppm	ASTM D5185(m)	>20	1	1	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<1	0	2
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	4	4	3
Lead	ppm	ASTM D5185(m)	>40	22	14	4
Copper	ppm	ASTM D5185(m)	>330	6	4	4
Tin	ppm	ASTM D5185(m)	>15	3	2	3
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

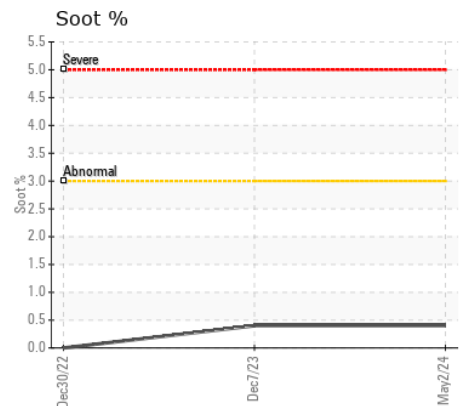
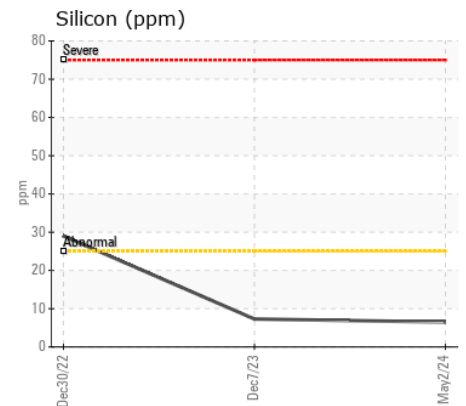
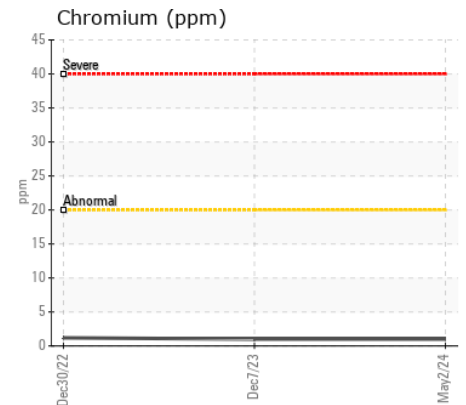
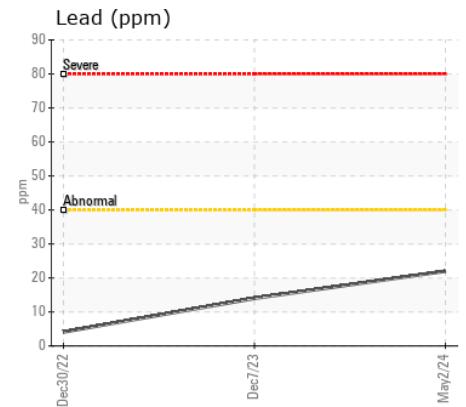
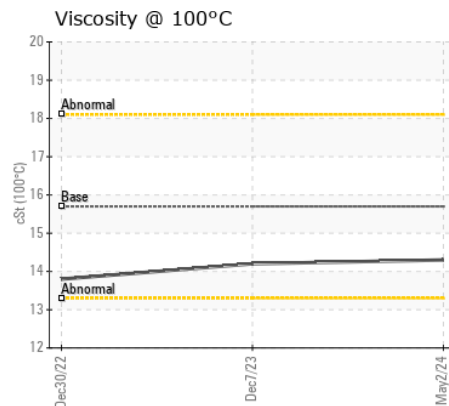
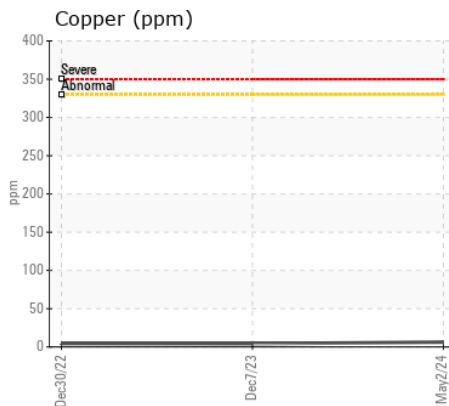
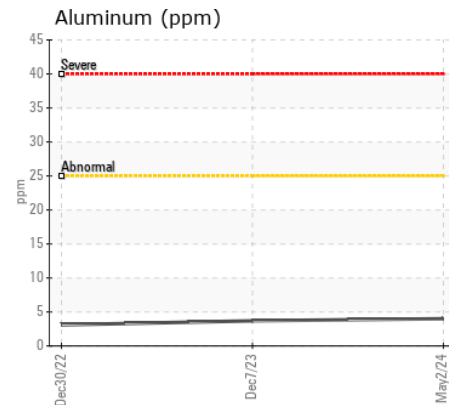
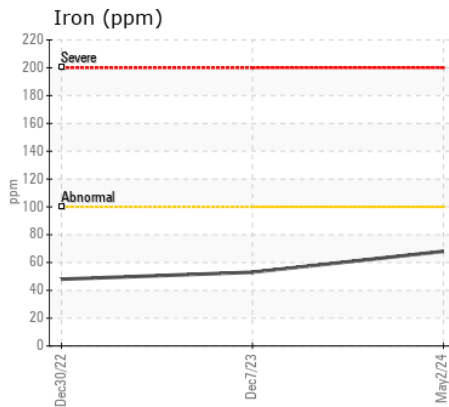
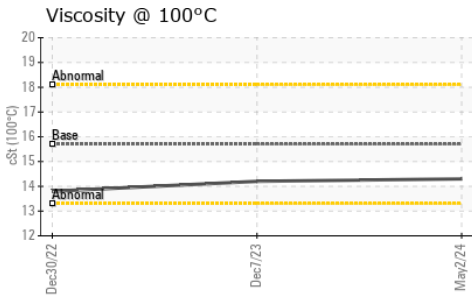
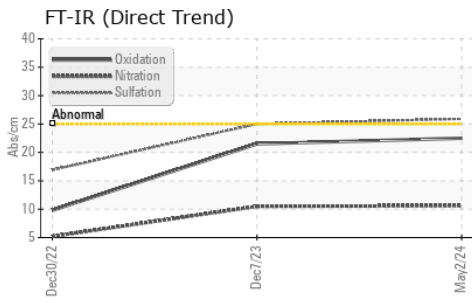
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	7	▲ 29
Potassium	ppm	ASTM D5185(m)	>20	3	<1	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	10.6	10.5	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	25.0	16.9
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)		9	6	4
Boron	ppm	ASTM D5185(m)	35	36	24	42
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	35	30	17
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	10	369	309	68
Calcium	ppm	ASTM D5185(m)	2340	1813	1753	2069
Phosphorus	ppm	ASTM D5185(m)	1110	1026	959	1017
Zinc	ppm	ASTM D5185(m)	1210	1226	1177	1118
Sulfur	ppm	ASTM D5185(m)	3890	2555	2549	2816
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.5	21.5	9.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	14.3	14.2	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022687
Lab Number : 02634244
Unique Number : 5775397
Test Package : MOB 1
Received : 09 May 2024
Tested : 09 May 2024
Diagnosed : 09 May 2024 - Wes Davis

STEER ENTERPRISES LTD
 7051 COUNTY ROAD 9
 STAYNER, ON
 CA L0M 1S0
 Contact: Service Manager
 caitlyn@steer.ca

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.