



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CATERPILLAR 5079
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0788980	WC0693871	WC0693870
Sample Date		Client Info		08 Apr 2024	27 Sep 2022	14 Jun 2022
Machine Age	kms	Client Info		3246147	2976000	2921407
Oil Age	kms	Client Info		30000	26166	26772
Filter Age	kms	Client Info		30000	26166	26772
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	15	13	14
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	4
Lead	ppm	ASTM D5185(m)	>40	2	2	4
Copper	ppm	ASTM D5185(m)	>330	4	4	5
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.

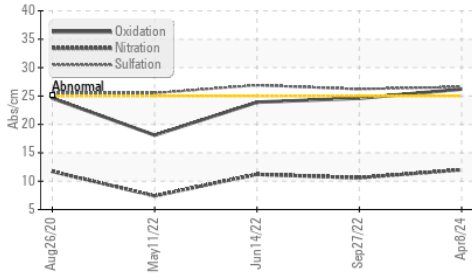
Silicon	ppm	ASTM D5185(m)	>25	6	7	9
Potassium	ppm	ASTM D5185(m)	>20	1	4	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.0	10.6	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.6	26.2	26.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

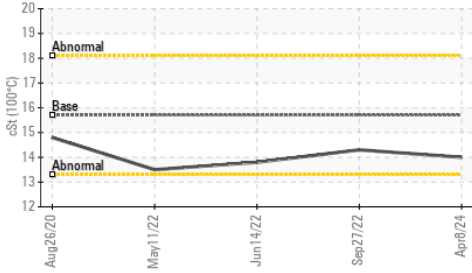
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	6	2
Boron	ppm	ASTM D5185(m)		166	122	197
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		111	43	119
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		614	240	636
Calcium	ppm	ASTM D5185(m)		1595	2037	1587
Phosphorus	ppm	ASTM D5185(m)	1200	716	930	752
Zinc	ppm	ASTM D5185(m)	1300	856	1025	829
Sulfur	ppm	ASTM D5185(m)	3200	2084	2673	2120
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.2	24.6	23.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	14.0	14.3	13.8

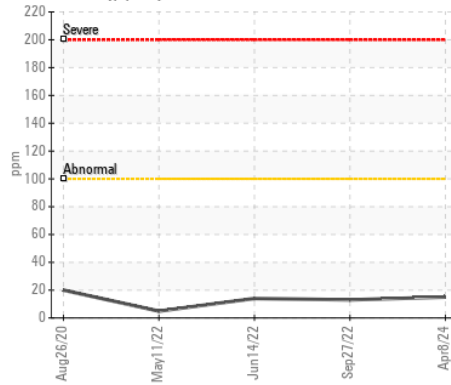
FT-IR (Direct Trend)



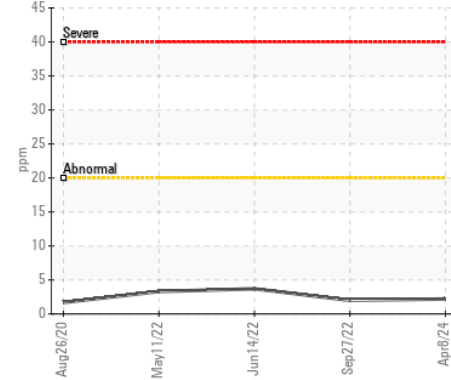
Viscosity @ 100°C



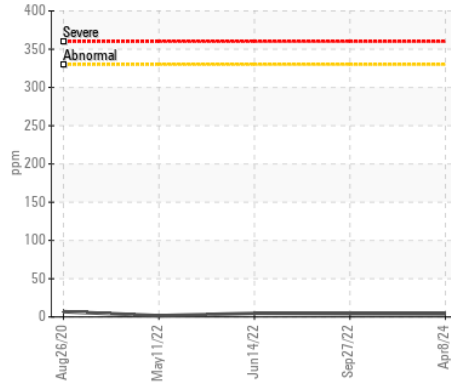
Iron (ppm)



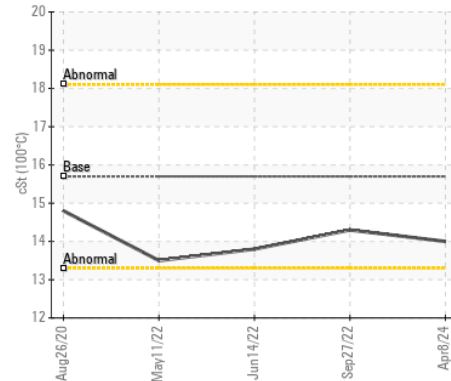
Aluminum (ppm)



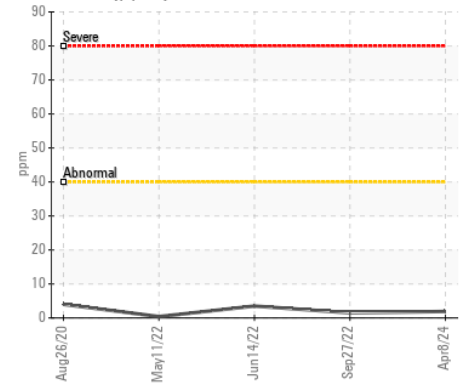
Copper (ppm)



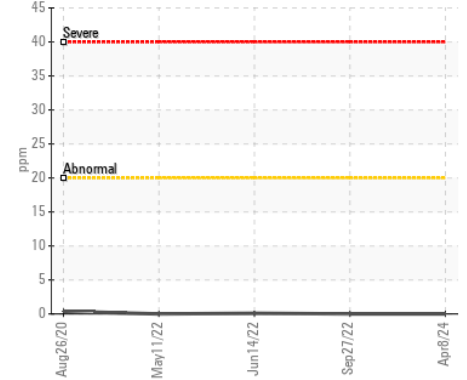
Viscosity @ 100°C



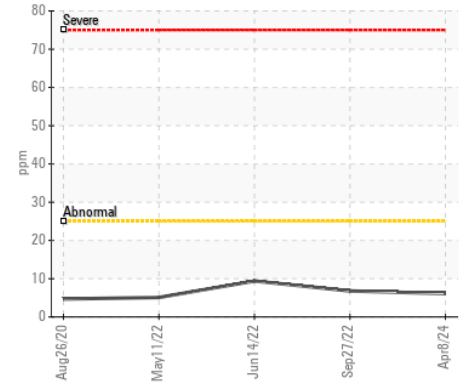
Lead (ppm)



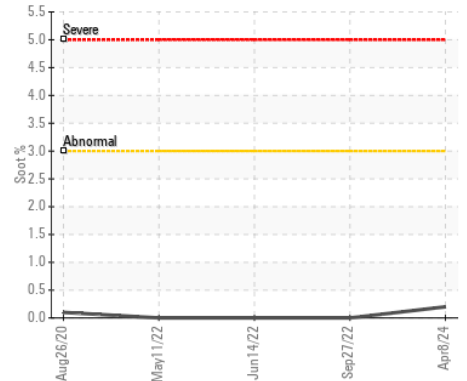
Chromium (ppm)



Silicon (ppm)



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0788980 **Received** : 15 May 2024
Lab Number : 02635590 **Tested** : 15 May 2024
Unique Number : 5776743 **Diagnosed** : 15 May 2024 - Kevin Marson
Test Package : MOB 1

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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.