

Machine Id
1224
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082907	PC0083695	PC0078091
Sample Date		Client Info		11 Jun 2024	21 Jan 2024	13 Sep 2023
Machine Age	hrs	Client Info		6883	6388	5825
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	9	9	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	5	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	2	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

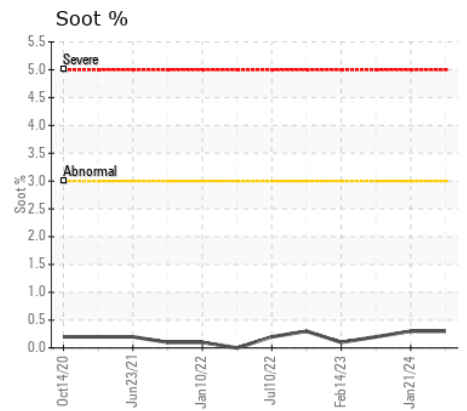
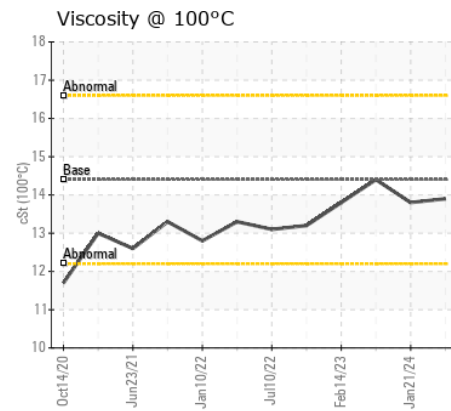
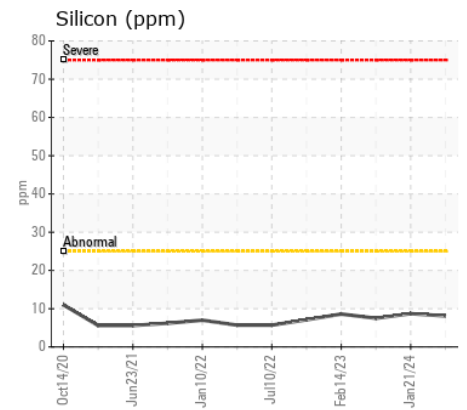
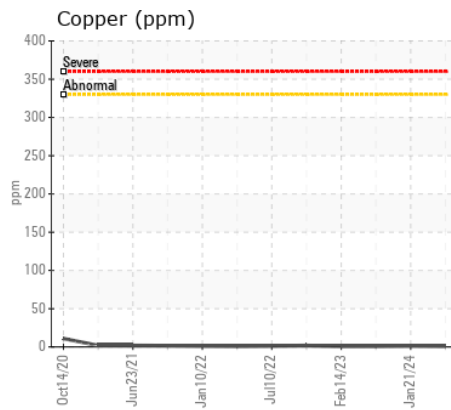
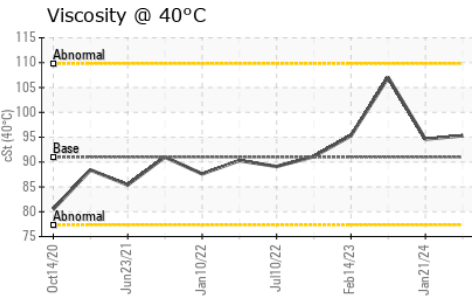
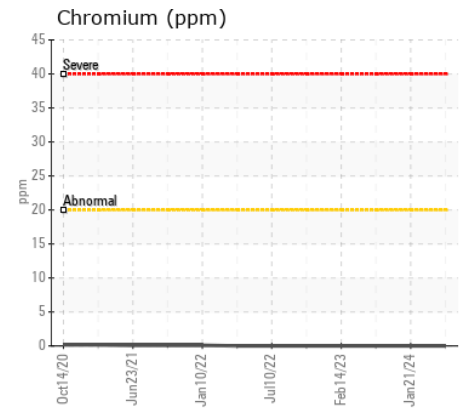
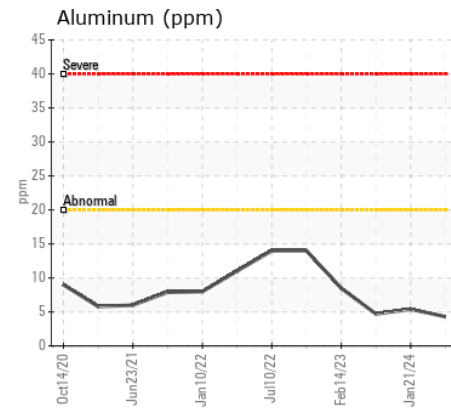
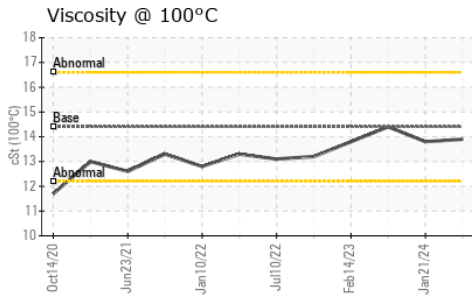
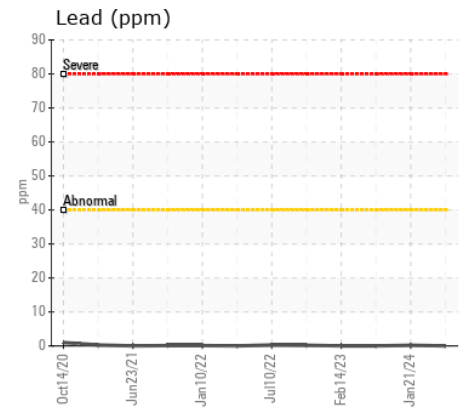
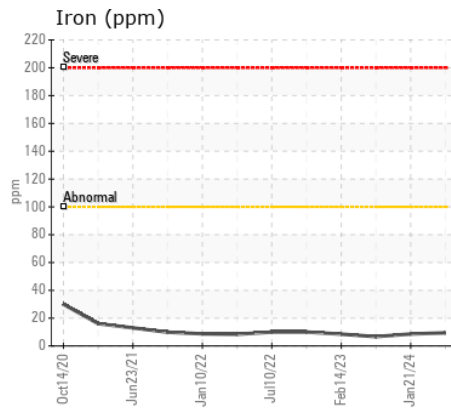
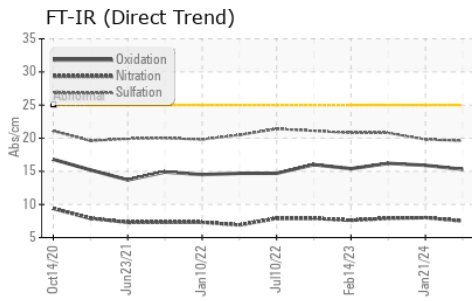
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	9	8
Potassium	ppm	ASTM D5185(m)	>20	8	12	15
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	0.3	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.5	8.0	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	19.8	20.8
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)	>44	<1	<1	2
Boron	ppm	ASTM D5185(m)	250	2	6	88
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	57	54	14
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	943	878	130
Calcium	ppm	ASTM D5185(m)	3000	1095	1197	2063
Phosphorus	ppm	ASTM D5185(m)	1150	983	999	1006
Zinc	ppm	ASTM D5185(m)	1350	1187	1172	1141
Sulfur	ppm	ASTM D5185(m)	4250	2458	2632	2806
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3	15.9	16.2
Visc @ 40°C	cSt	ASTM D7279(m)	91	95.3	94.6	107
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	13.8	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	164	148	148	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082907
Lab Number : 02641368
Unique Number : 5798907
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.

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F: