

Machine Id
F55062
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		PC0083722	PC0039009	PC0077714
Sample Date		Client Info		15 May 2024	17 Aug 2023	08 Aug 2023
Machine Age	hrs	Client Info		1774	3177	3057
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	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	6	15
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	2	0
Aluminum	ppm	ASTM D5185(m)	>20	2	<1	5
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

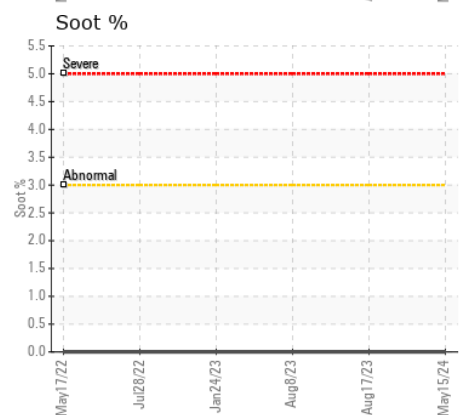
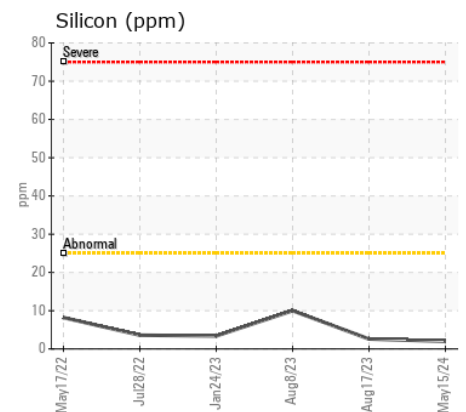
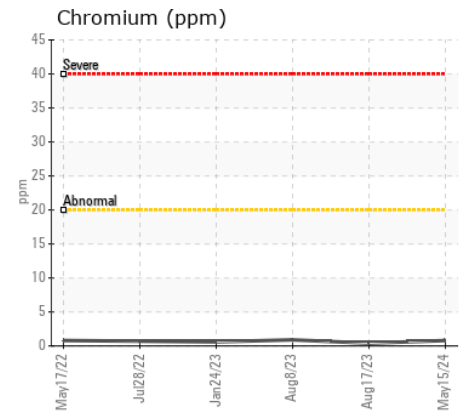
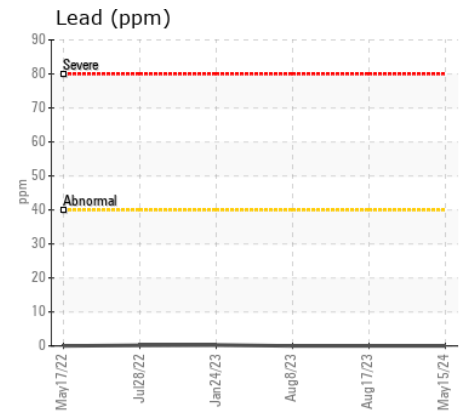
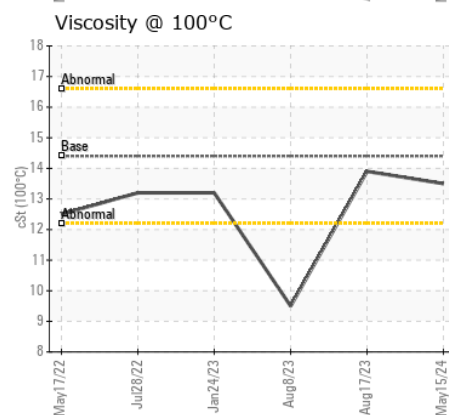
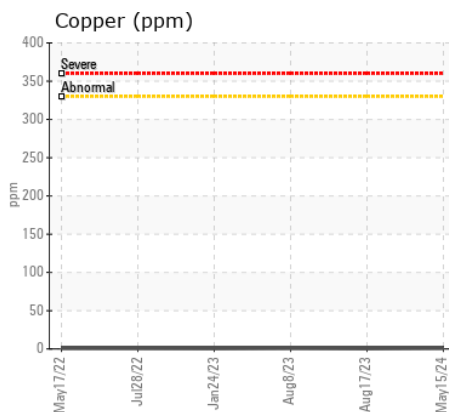
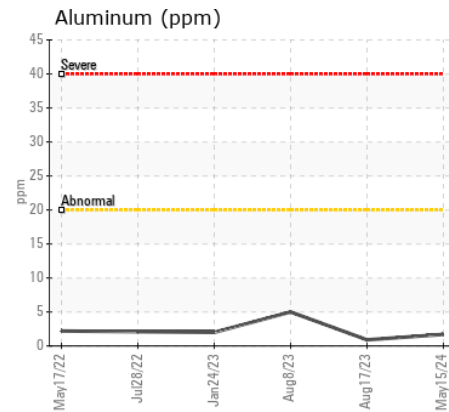
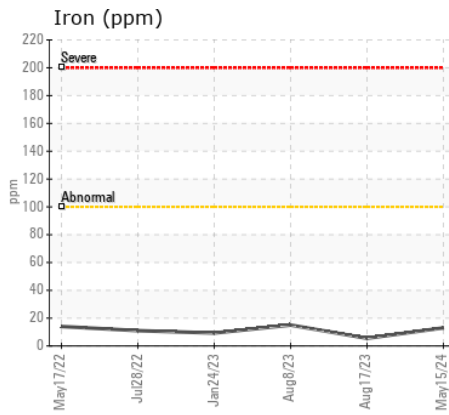
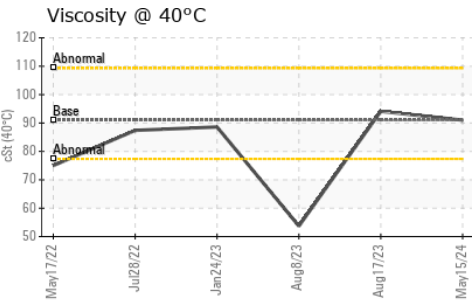
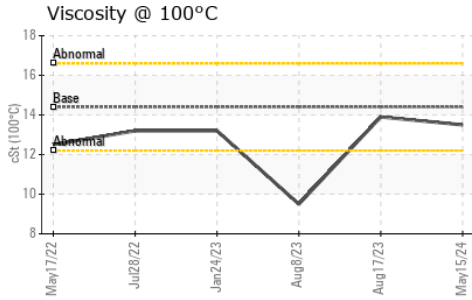
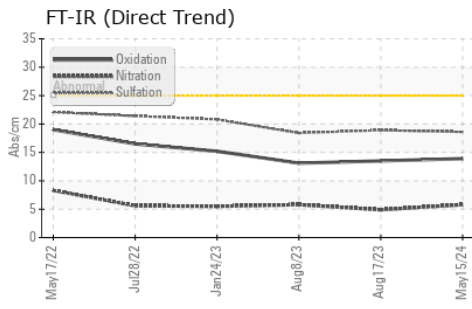
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	10
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	3
Fuel		WC Method	>5	<1.0	0.5	▲ 9.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	▲ 0.033
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.8	4.9	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	18.9	18.4
Silt	scalar	Visual*	NONE	VLITE	---	NONE
Debris	scalar	Visual*	NONE	VLITE	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	▲ .2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>44	1	2	8
Boron	ppm	ASTM D5185(m)	250	2	3	9
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	58	57	50
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	960	959	802
Calcium	ppm	ASTM D5185(m)	3000	1101	1085	1031
Phosphorus	ppm	ASTM D5185(m)	1150	976	1068	913
Zinc	ppm	ASTM D5185(m)	1350	1189	1196	1029
Sulfur	ppm	ASTM D5185(m)	4250	2492	2664	2285
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	13.5	13.1
Visc @ 40°C	cSt	ASTM D7279(m)	91	91.0	94.1	▲ 53.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	13.9	▲ 9.5
Viscosity Index (VI)	Scale	ASTM D2270*	164	149	150	162



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083722
Lab Number : 02636533
Unique Number : 5785695
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)
Received : 21 May 2024
Tested : 21 May 2024
Diagnosed : 21 May 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.