



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1214
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- 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		PC0088926	PC0082443	PC0073325
Sample Date		Client Info		11 Jun 2024	31 Oct 2023	16 Jul 2023
Machine Age	hrs	Client Info		8383	7614	7142
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	21	20	22
Chromium	ppm	ASTM D5185(m)	>20	1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	7	10	6
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

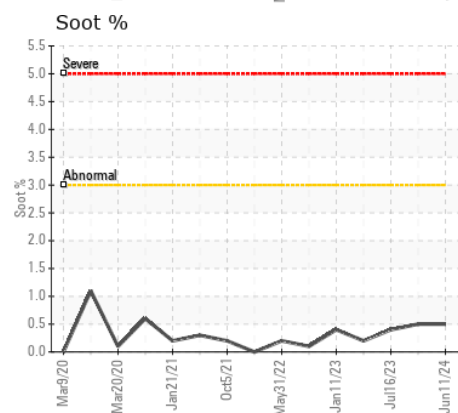
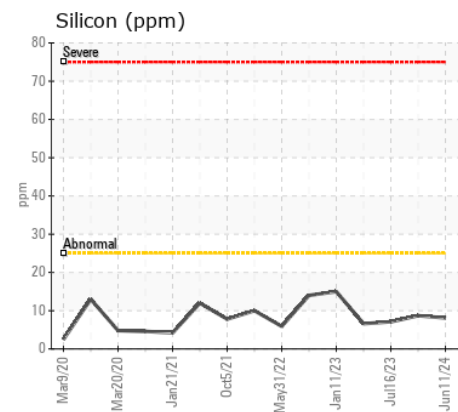
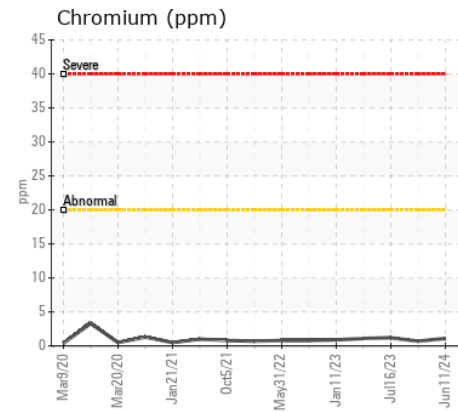
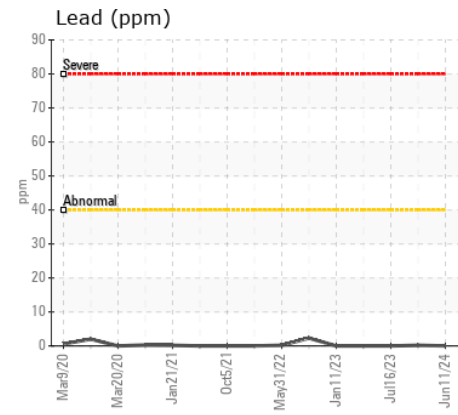
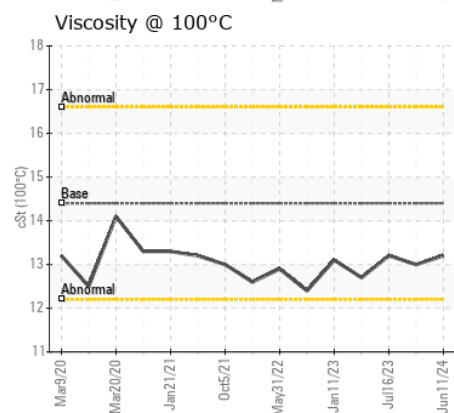
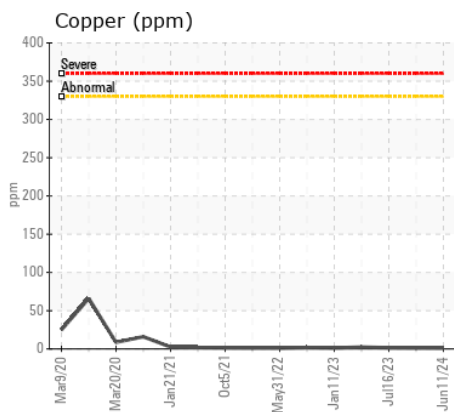
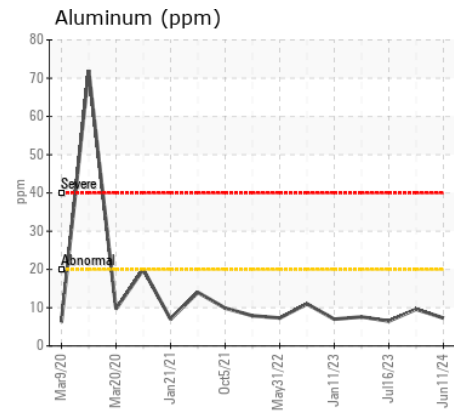
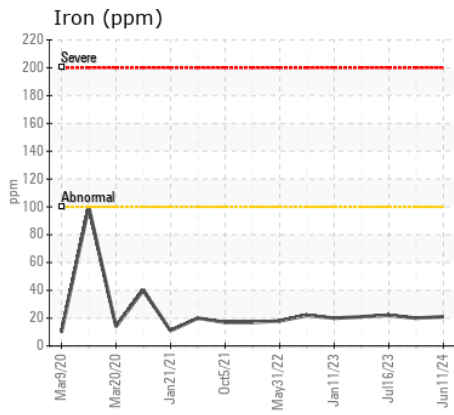
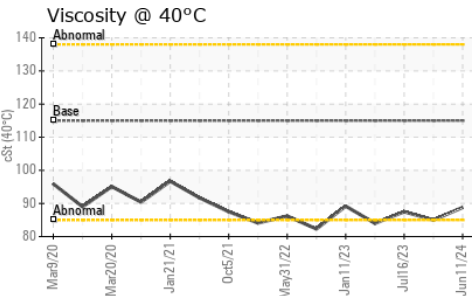
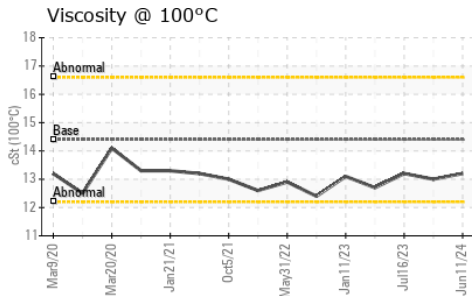
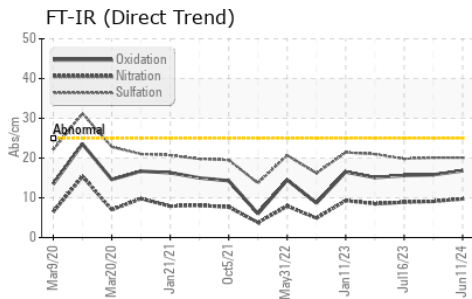
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	9	7
Potassium	ppm	ASTM D5185(m)	>20	9	14	8
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	0.5	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.7	9.1	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	20.1	19.8
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)	>158	6	5	6
Boron	ppm	ASTM D5185(m)	250	1	1	2
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	60	59	57
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	969	941	953
Calcium	ppm	ASTM D5185(m)	3000	1080	1090	1059
Phosphorus	ppm	ASTM D5185(m)	1150	1019	1004	1044
Zinc	ppm	ASTM D5185(m)	1350	1200	1182	1169
Sulfur	ppm	ASTM D5185(m)	4250	2533	2487	2508
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	15.8	15.6
Visc @ 40°C	cSt	ASTM D7279(m)	115	88.8	85.0	87.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.2	13.0	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	126	148	152	151



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088926
Lab Number : 02641365
Unique Number : 5798904
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.