



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ROSENBAVER LAKESHORE R3
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0867264	WC0760648	WC0661108
Sample Date		Client Info		15 Apr 2024	11 Apr 2023	18 Apr 2022
Machine Age	hrs	Client Info		1257	1169	1031
Oil Age	hrs	Client Info		138	138	59
Filter Age	hrs	Client Info		138	138	59
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	8	12	4
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	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

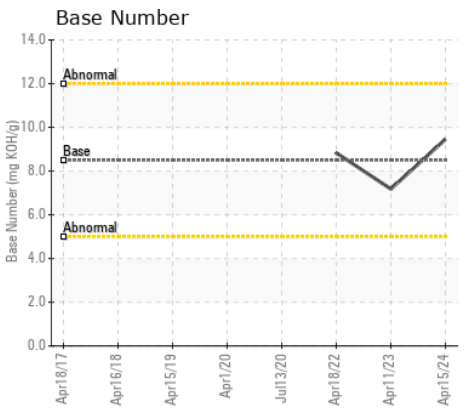
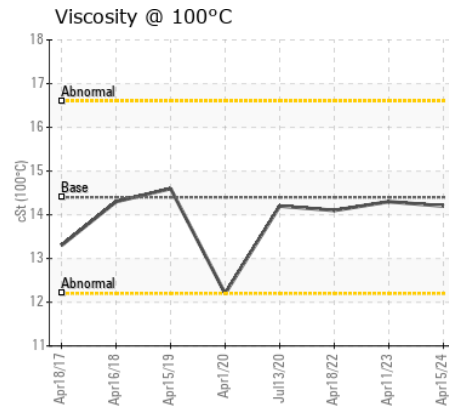
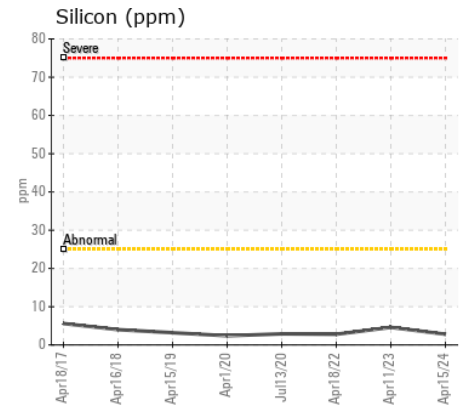
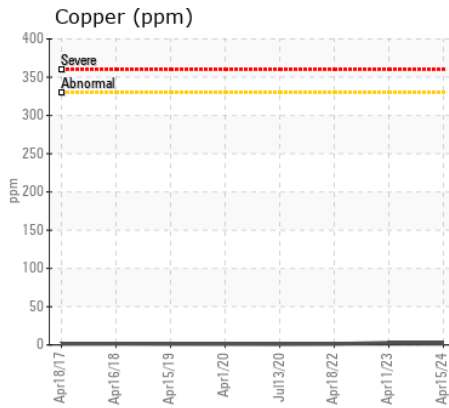
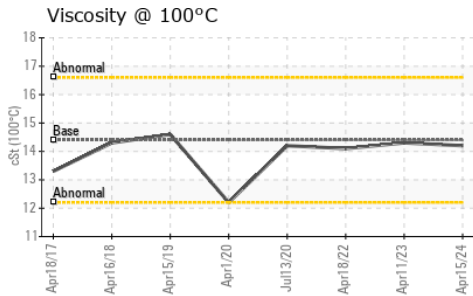
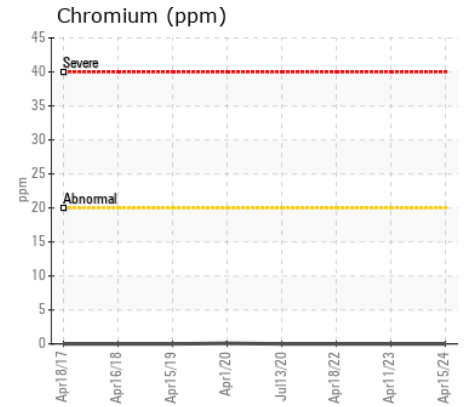
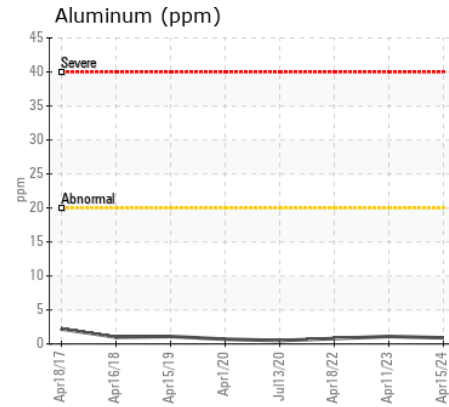
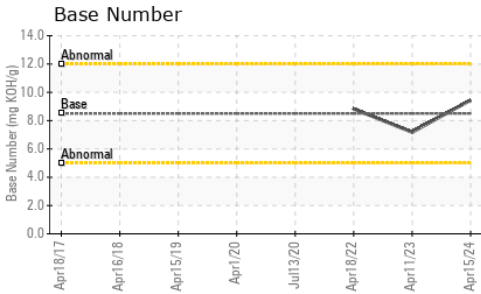
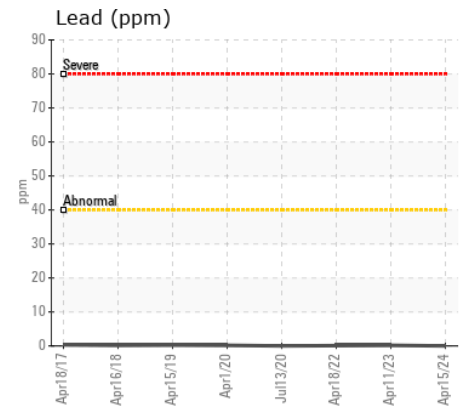
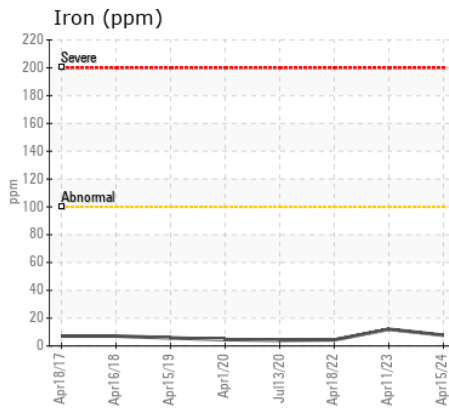
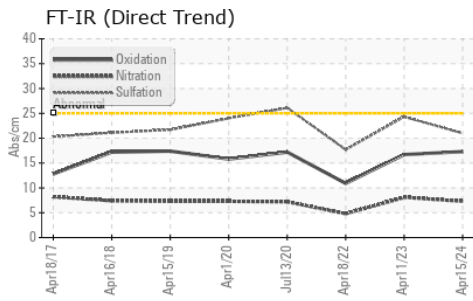
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	3
Potassium	ppm	ASTM D5185(m)	>20	7	0	7
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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.3	8.1	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	24.3	17.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>158	2	2	2
Boron	ppm	ASTM D5185(m)	250	161	155	158
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	0	<1	2
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)	450	15	18	45
Calcium	ppm	ASTM D5185(m)	3000	2176	2258	2011
Phosphorus	ppm	ASTM D5185(m)	1150	965	1070	1010
Zinc	ppm	ASTM D5185(m)	1350	1138	1172	1136
Sulfur	ppm	ASTM D5185(m)	4250	2900	3086	3008
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	16.7	10.9
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.45	7.18	8.83
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.2	14.3	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0867264
Lab Number : 02630045
Unique Number : 5763177
Test Package : MOB 2
Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 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.