



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2637
Component
Diesel Engine
Fluid
KENDALL SUPER-D XA 15W40 (--- LTR)

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		WC0883052	WC0824261	WC0753534
Sample Date		Client Info		23 Feb 2024	14 Jun 2023	20 Dec 2022
Machine Age	hrs	Client Info		5489	4798	4400
Oil Age	hrs	Client Info		691	396	447
Filter Age	hrs	Client Info		691	396	447
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	10	10	11
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		88	92	82
Silver	ppm	ASTM D5185(m)	>3	0	0	2
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
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)		<1	<1	<1

CONTAMINATION

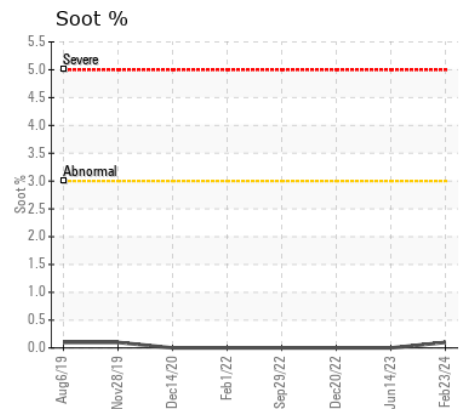
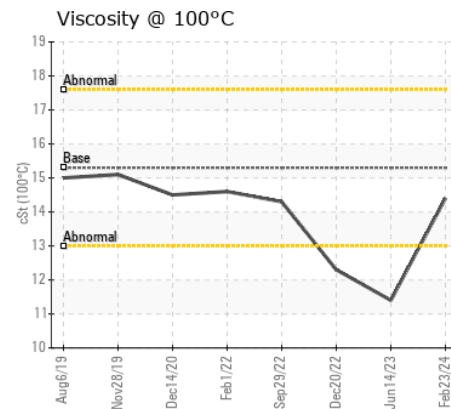
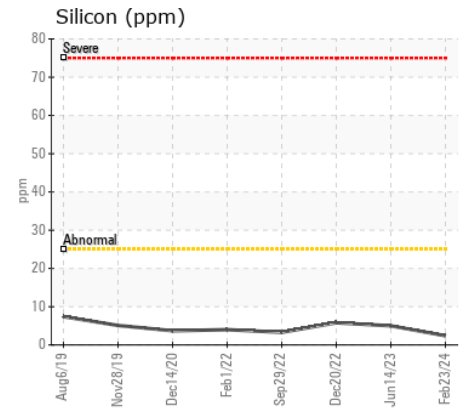
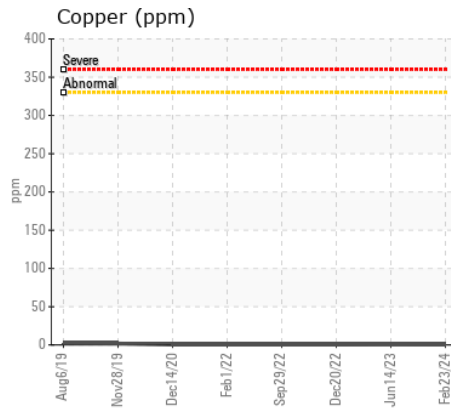
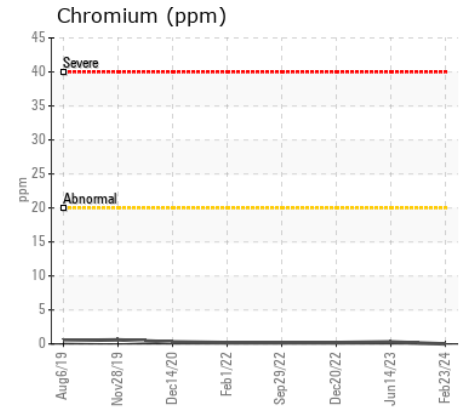
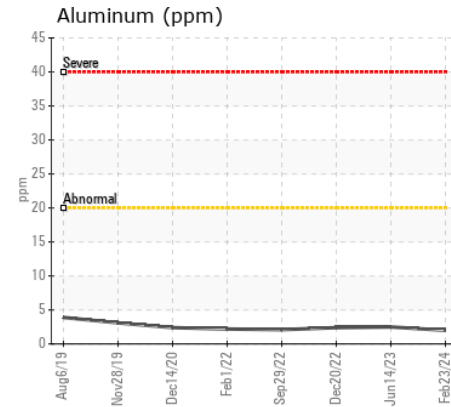
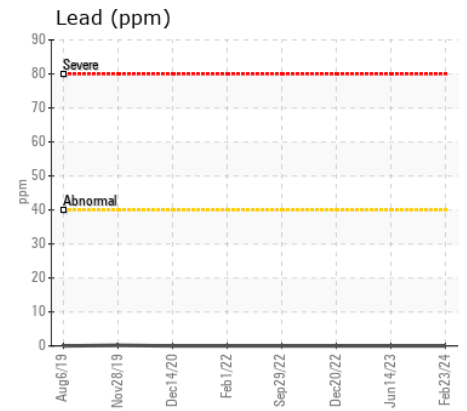
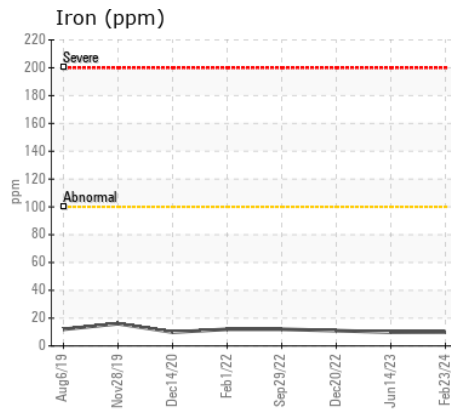
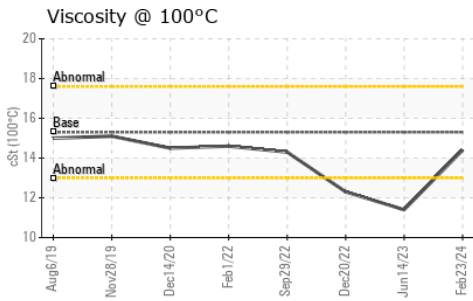
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	5	6
Potassium	ppm	ASTM D5185(m)	>20	2	3	3
Fuel		WC Method	>5	<1.0	0.7	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.1	7.5	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	19.9	21.5
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)		5	5	5
Boron	ppm	ASTM D5185(m)		109	131	121
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	2
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		395	391	436
Calcium	ppm	ASTM D5185(m)		1830	1802	1840
Phosphorus	ppm	ASTM D5185(m)		947	1046	1105
Zinc	ppm	ASTM D5185(m)	1260	1143	1154	1164
Sulfur	ppm	ASTM D5185(m)		3076	3255	3375
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.0	13.6	14.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.4	▲ 11.4	12.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0883052 **Received** : 27 Mar 2024
Lab Number : 02624897 **Tested** : 27 Mar 2024
Unique Number : 5750016 **Diagnosed** : 27 Mar 2024 - Wes Davis
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.