



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2626
 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		WC0850802	WC0850790	WC0790828
Sample Date		Client Info		06 Oct 2023	30 Aug 2023	03 Apr 2023
Machine Age	hrs	Client Info		2099	1873	1638
Oil Age	hrs	Client Info		226	235	30
Filter Age	hrs	Client Info		226	235	30
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	6	7	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		86	94	90
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	0
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

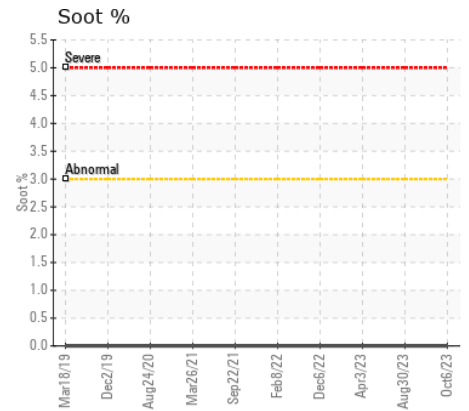
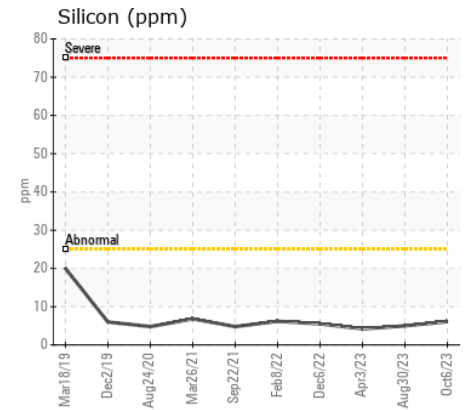
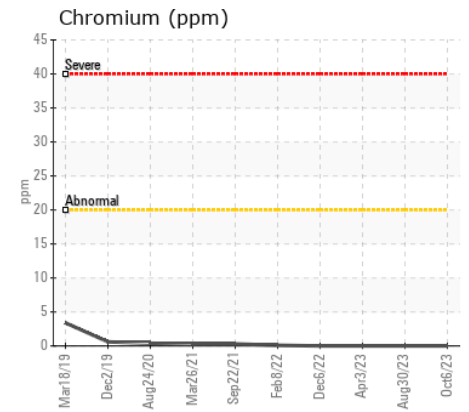
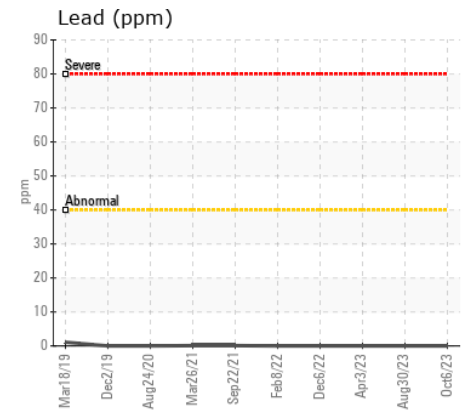
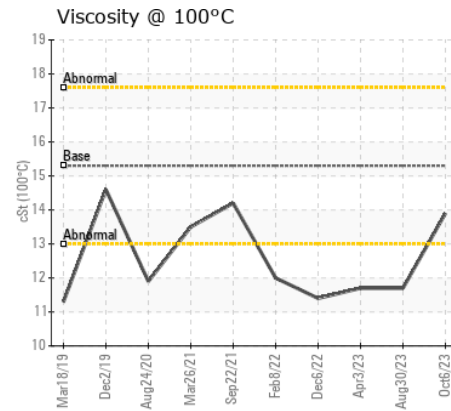
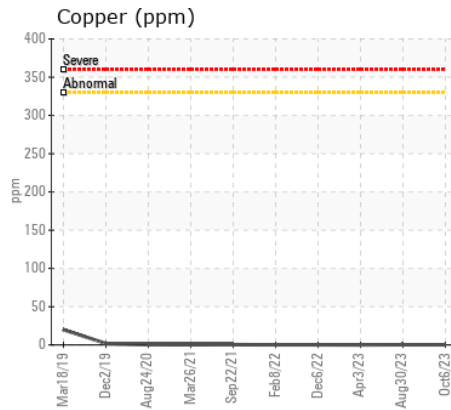
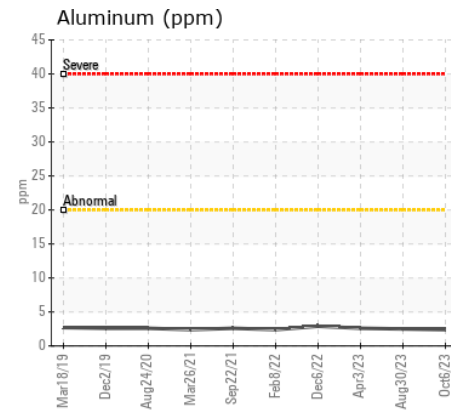
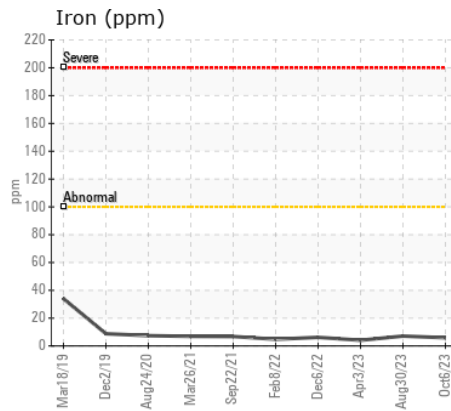
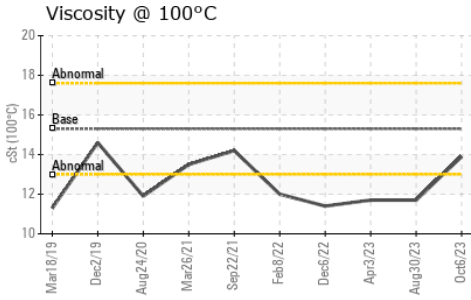
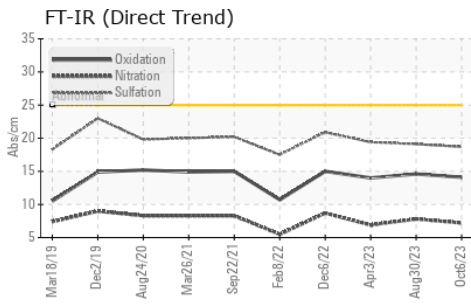
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	4
Potassium	ppm	ASTM D5185(m)	>20	3	2	3
Fuel		WC Method	>5	<1.0	0.9	<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	7.2	7.8	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.1	19.4
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		2	4	4
Boron	ppm	ASTM D5185(m)		123	137	148
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		4	<1	4
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		397	410	380
Calcium	ppm	ASTM D5185(m)		1791	1760	1839
Phosphorus	ppm	ASTM D5185(m)		1011	1014	1080
Zinc	ppm	ASTM D5185(m)	1260	1150	1178	1151
Sulfur	ppm	ASTM D5185(m)		3456	3314	3388
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	14.6	14.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	13.9	▲ 11.7	11.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0850802
Lab Number : 02604838
Unique Number : 5697923
Test Package : MOB 1 (Additional Tests: Visual)

Received : 22 Dec 2023
Tested : 22 Dec 2023
Diagnosed : 22 Dec 2023 - Wes Davis

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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