



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
2644
 Component
Diesel Engine
 Fluid
KENDALL SUPER-D XA 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

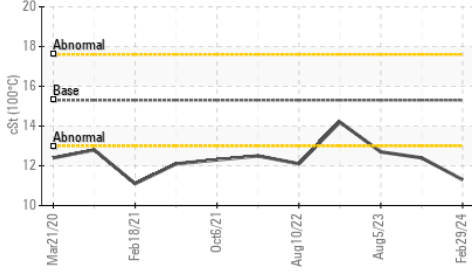
Light fuel dilution occurring.

FLUID CONDITION

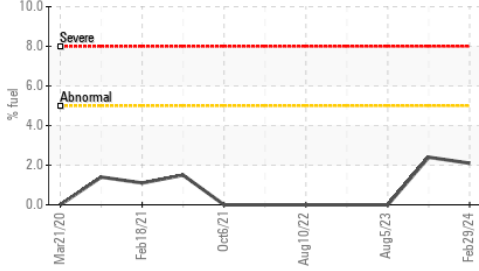
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0883041	WC0850797	WC0824274
Sample Date		Client Info		29 Feb 2024	23 Oct 2023	05 Aug 2023
Machine Age	hrs	Client Info		4494	4319	3934
Oil Age	hrs	Client Info		175	385	369
Filter Age	hrs	Client Info		175	385	369
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
<hr/>						
Iron	ppm	ASTM D5185(m)	>100	14	13	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		82	68	80
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	6	8	6
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		<1	0	<1
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
<hr/>						
Silicon	ppm	ASTM D5185(m)	>25	6	5	5
Potassium	ppm	ASTM D5185(m)	>20	3	4	3
Fuel	%	ASTM D7593*	>5	▲ 2.1	▲ 2.4	<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	7.8	8.9	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	21.3	20.7
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
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	NEG
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Sodium	ppm	ASTM D5185(m)		3	3	4
Boron	ppm	ASTM D5185(m)		112	71	93
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	3	6
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		380	334	421
Calcium	ppm	ASTM D5185(m)		1859	1816	1691
Phosphorus	ppm	ASTM D5185(m)		972	987	1015
Zinc	ppm	ASTM D5185(m)	1260	1153	1144	1131
Sulfur	ppm	ASTM D5185(m)		3127	3229	3147
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	17.7	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	▲ 11.3	▲ 12.4	12.7

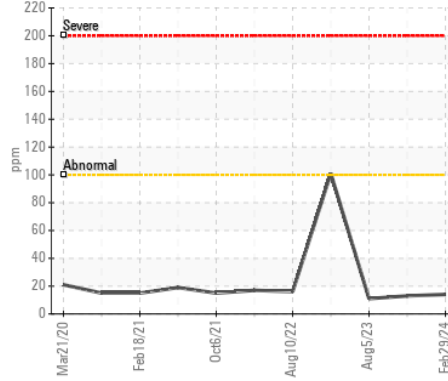
▲ Viscosity @ 100°C



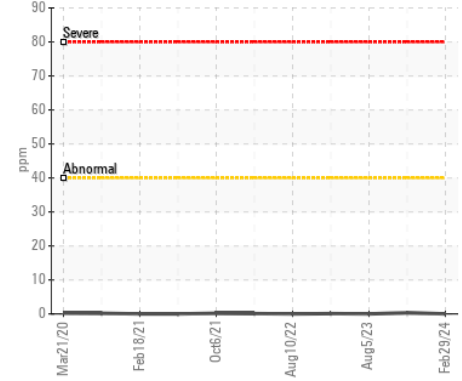
▲ Fuel Dilution



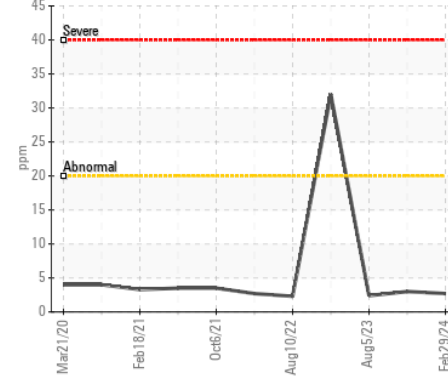
Iron (ppm)



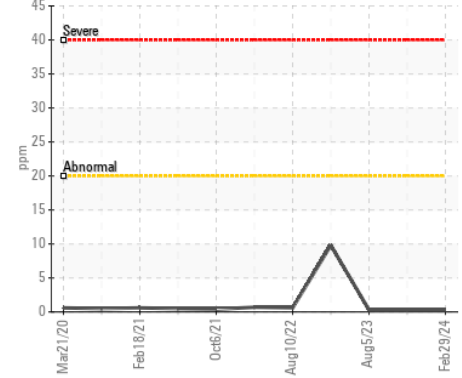
Lead (ppm)



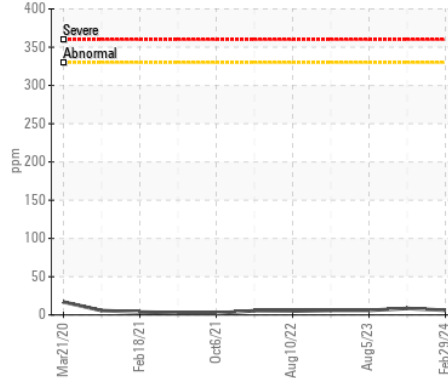
Aluminum (ppm)



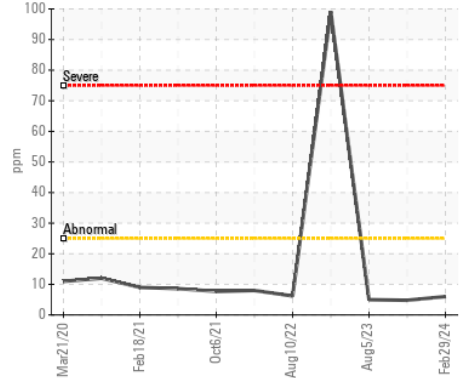
Chromium (ppm)



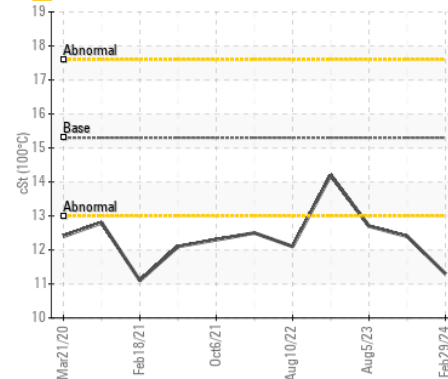
Copper (ppm)



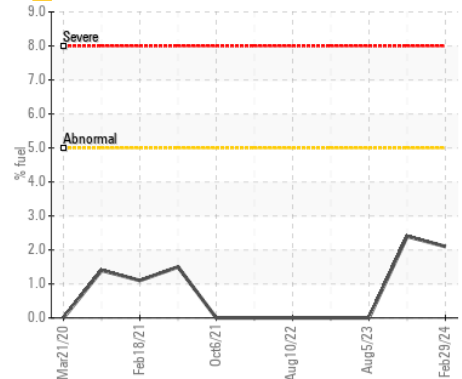
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0883041 **Received** : 27 Mar 2024
Lab Number : 02624881 **Tested** : 28 Mar 2024
Unique Number : 5750000 **Diagnosed** : 28 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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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