



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK 3363
Component
Diesel Engine
Fluid
KENDALL SUPER-D XA 10W30 (34 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0722961	WC0722960	WC0722970
Sample Date		Client Info		01 Apr 2024	03 Oct 2023	17 Feb 2023
Machine Age	kms	Client Info		1523253	1461754	1378305
Oil Age	kms	Client Info		61499	78314	75889
Filter Age	kms	Client Info		8993	16323	15130
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	67	109	66
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	2	<1
Titanium	ppm	ASTM D5185(m)	>2	82	88	79
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	10	11	7
Lead	ppm	ASTM D5185(m)	>40	7	8	5
Copper	ppm	ASTM D5185(m)	>330	14	42	11
Tin	ppm	ASTM D5185(m)	>15	<1	2	2
Vanadium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINATION

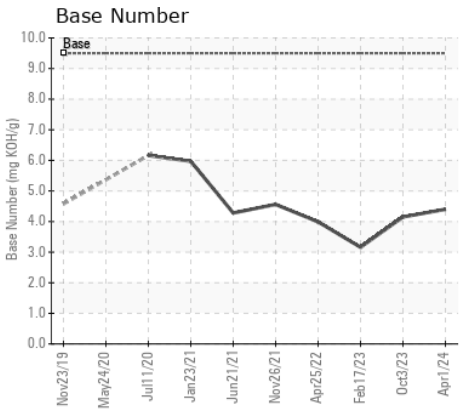
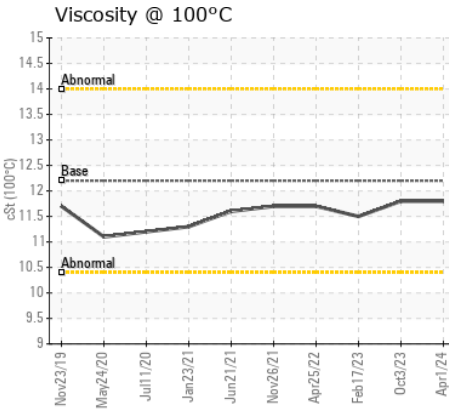
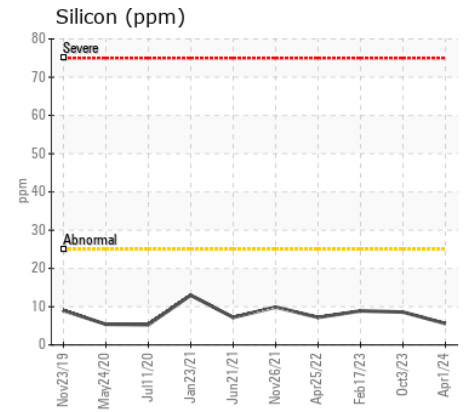
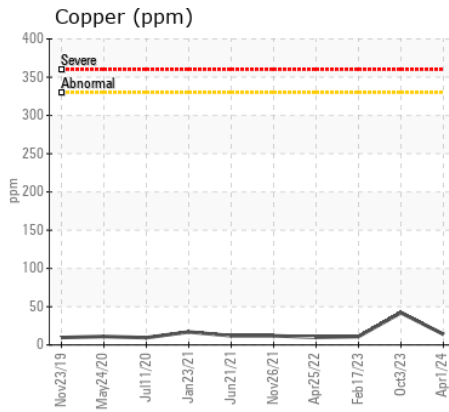
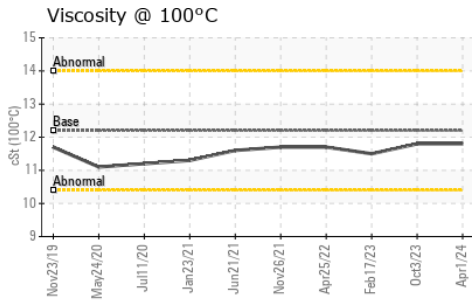
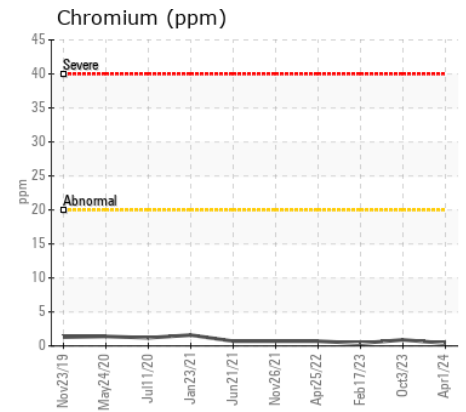
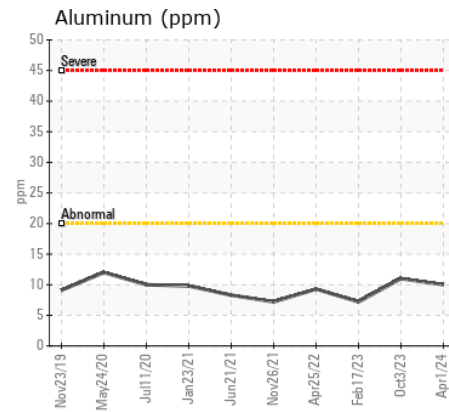
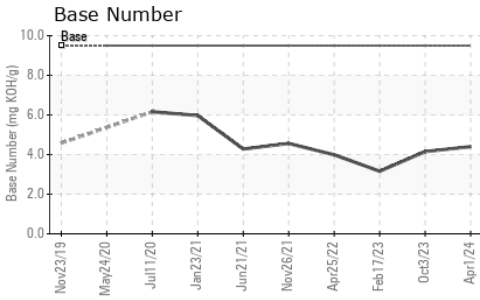
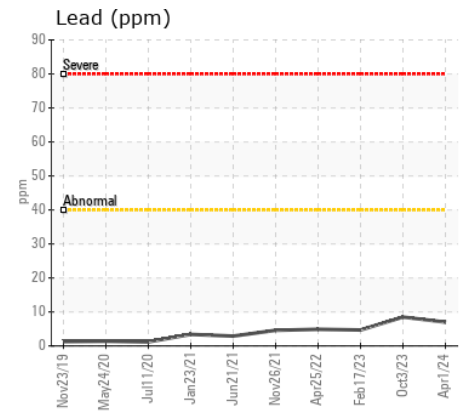
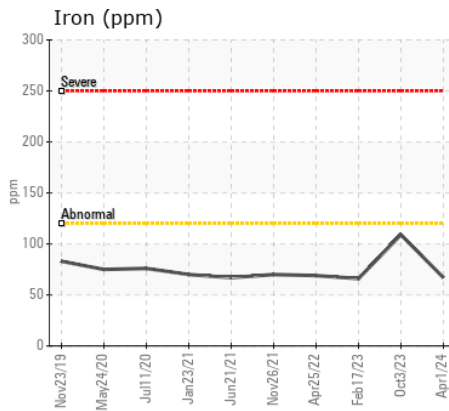
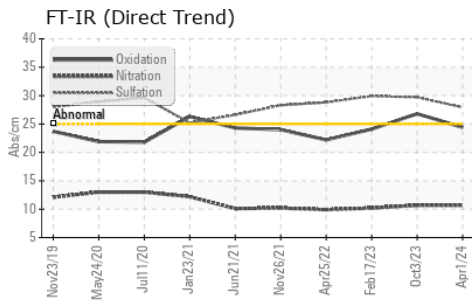
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	9	9
Potassium	ppm	ASTM D5185(m)	>20	3	3	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.5	0.8	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.7	10.7	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.9	29.7	29.9
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)		13	21	14
Boron	ppm	ASTM D5185(m)		12	10	10
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		1	5	17
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		383	378	368
Calcium	ppm	ASTM D5185(m)		1684	1688	1756
Phosphorus	ppm	ASTM D5185(m)		918	919	987
Zinc	ppm	ASTM D5185(m)	1260	1038	1040	1018
Sulfur	ppm	ASTM D5185(m)		3524	3657	3858
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.4	26.8	24.1
Base Number (BN)	mg KOH/g	ASTM D2896*	9.5	4.40	4.15	3.16
Visc @ 100°C	cSt	ASTM D7279(m)	12.2	11.8	11.8	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0722961
Lab Number : 02633782
Unique Number : 5774935
Test Package : MOB 2
Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 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.