



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
6544
Component
Diesel Engine
Fluid
EXXON 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

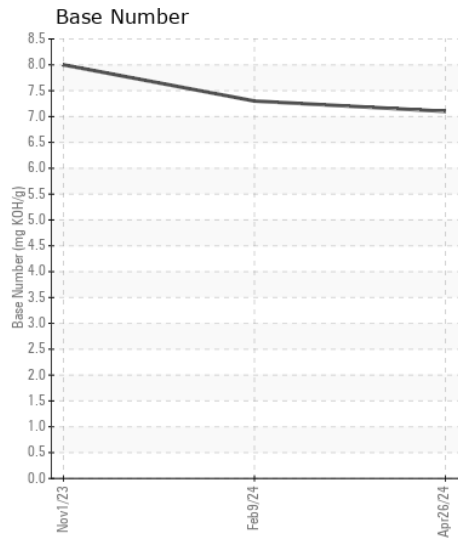
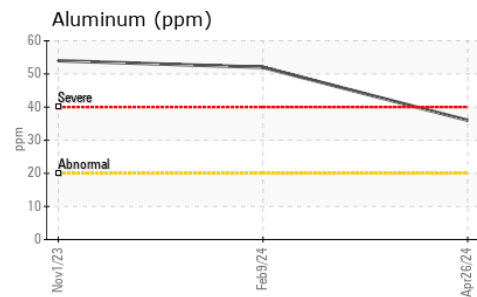
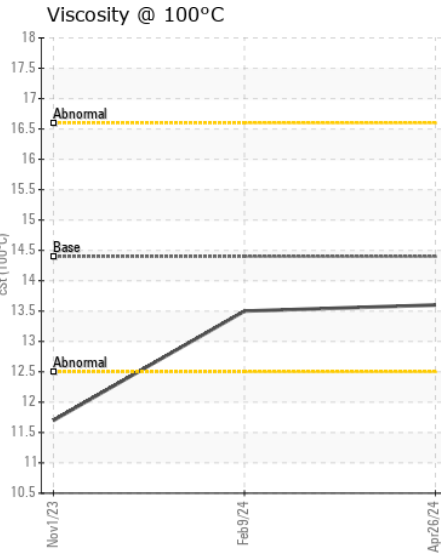
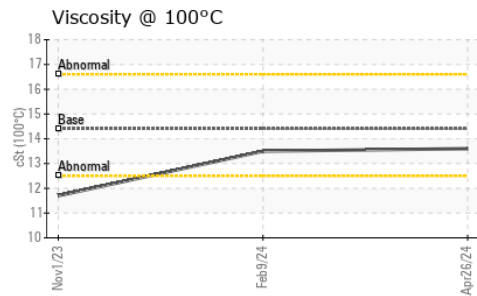
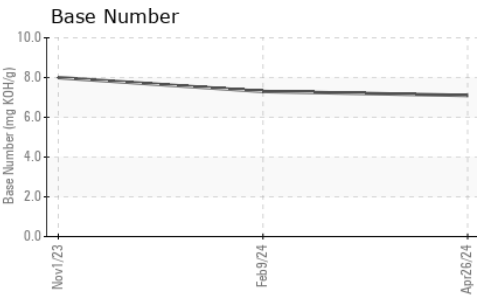
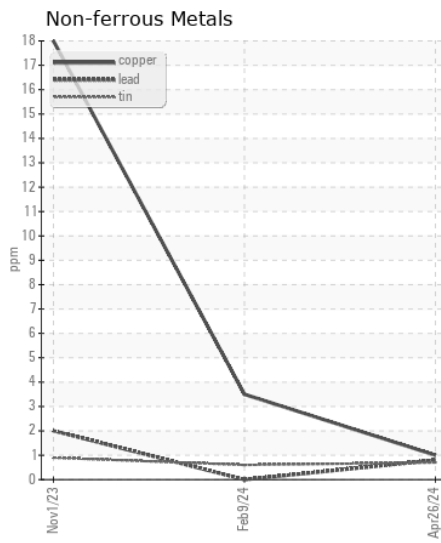
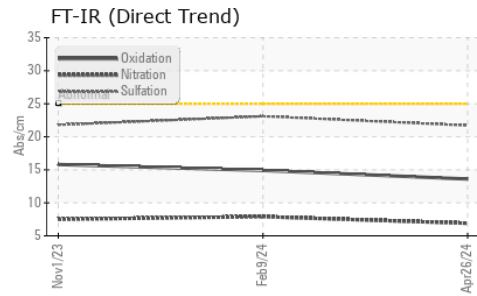
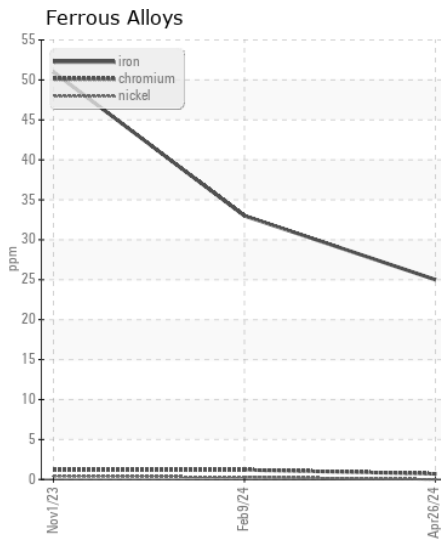
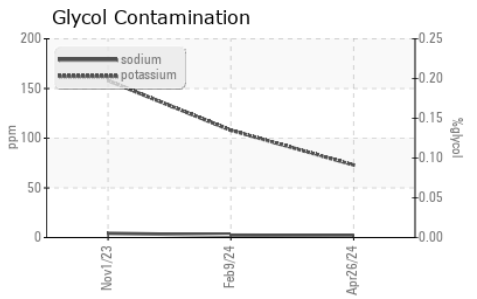
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0933374	WC0903528	WC0858222
Sample Date		Client Info		26 Apr 2024	09 Feb 2024	01 Nov 2023
Machine Age	mls	Client Info		57790	40377	18979
Oil Age	mls	Client Info		17413	21398	18863
Filter Age	mls	Client Info		17413	21398	18863
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

Iron	ppm	ASTM D5185m	>100	25	33	51
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	36	52	54
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	1	4	18
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>25	10	10	14
Potassium	ppm	ASTM D5185m	>20	73	108	158
Fuel		WC Method	>5	<1.0	<1.0	0.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.2	1.7	1.3
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	23.1	21.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		2	2	4
Boron	ppm	ASTM D5185m		392	221	69
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		90	73	61
Manganese	ppm	ASTM D5185m		1	1	4
Magnesium	ppm	ASTM D5185m		384	455	394
Calcium	ppm	ASTM D5185m		1395	1254	1719
Phosphorus	ppm	ASTM D5185m		1049	965	1010
Zinc	ppm	ASTM D5185m		1229	1176	1296
Sulfur	ppm	ASTM D5185m		3601	2938	3242
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	14.9	15.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	7.3	8.0
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.5	11.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0933374
Lab Number : 06187096
Unique Number : 11043848
Test Package : FLEET

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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)