



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
10557
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

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.

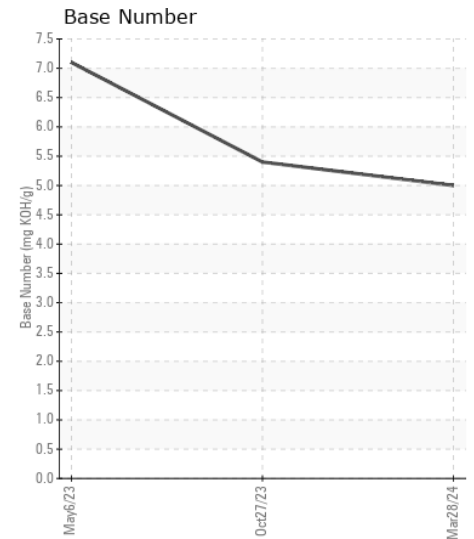
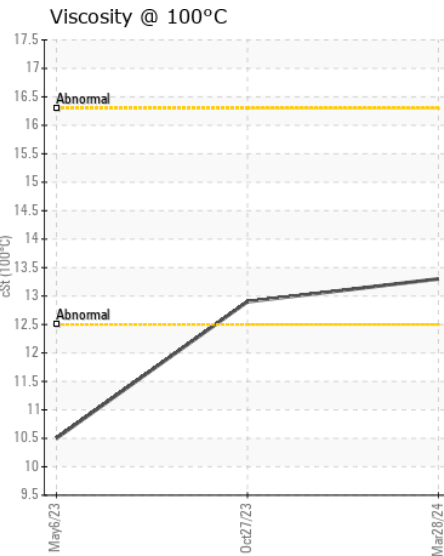
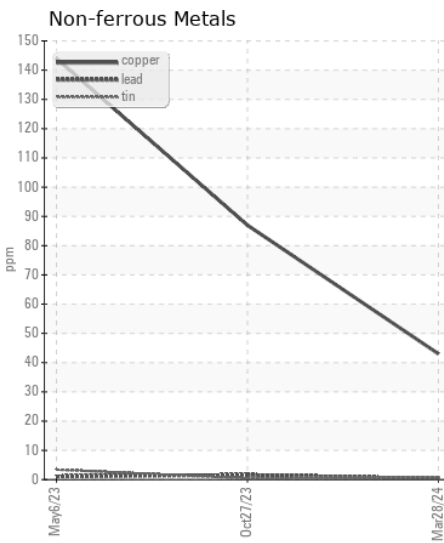
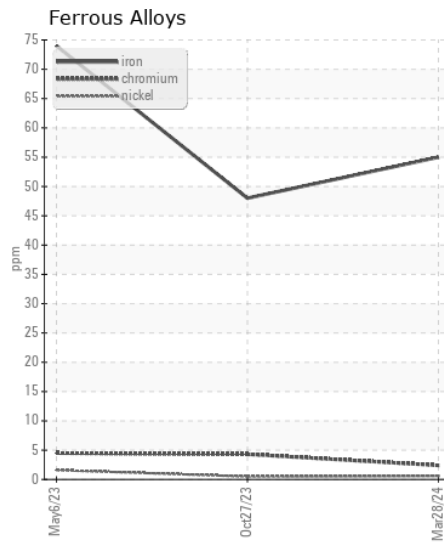
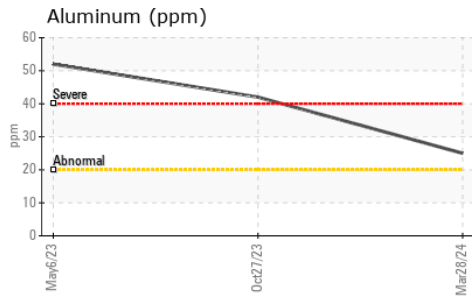
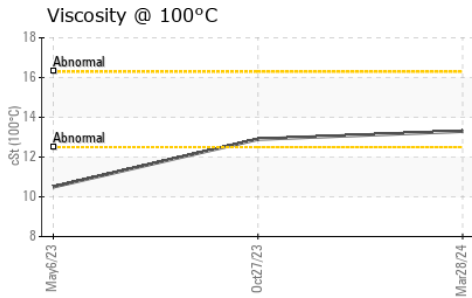
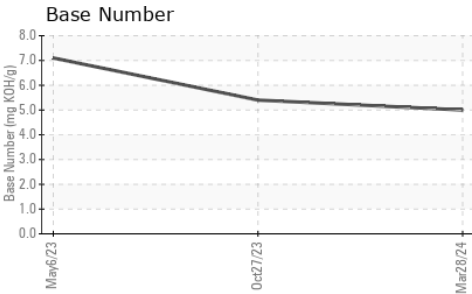
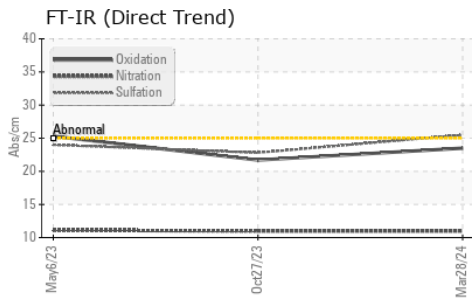
CONTAMINATION

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		WC0842048	WC0842133	WC0742478
Sample Date		Client Info		28 Mar 2024	27 Oct 2023	06 May 2023
Machine Age	mls	Client Info		139721	90972	43257
Oil Age	mls	Client Info		0	0	43257
Filter Age	mls	Client Info		0	0	43257
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	55	48	74
Chromium	ppm	ASTM D5185m	>20	2	4	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	25	42	52
Lead	ppm	ASTM D5185m	>40	<1	2	1
Copper	ppm	ASTM D5185m	>330	43	87	144
Tin	ppm	ASTM D5185m	>15	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	9	8	8
Potassium	ppm	ASTM D5185m	>20	51	100	131
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.0	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	22.8	24.0
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	>118	3	2	7
Boron	ppm	ASTM D5185m		48	2	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		80	62	49
Manganese	ppm	ASTM D5185m		1	1	4
Magnesium	ppm	ASTM D5185m		737	955	593
Calcium	ppm	ASTM D5185m		1350	1148	1684
Phosphorus	ppm	ASTM D5185m		1022	793	744
Zinc	ppm	ASTM D5185m		1355	1183	938
Sulfur	ppm	ASTM D5185m		2879	2133	2335
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	21.7	25.3
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	5.4	7.1
Visc @ 100°C	cSt	ASTM D445		13.3	12.9	▲ 10.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0842048 **Received** : 23 May 2024
Lab Number : 06190122 **Tested** : 28 May 2024
Unique Number : 11046874 **Diagnosed** : 28 May 2024 - Wes Davis
Test Package : FLEET

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 198 PARK PLAZA DRIVE
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Certificate L2367
 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)