



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
6364
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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. No other contaminants were detected in the oil.

FLUID CONDITION

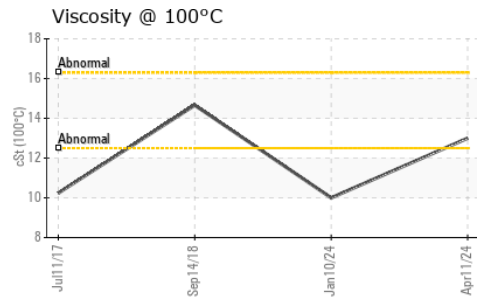
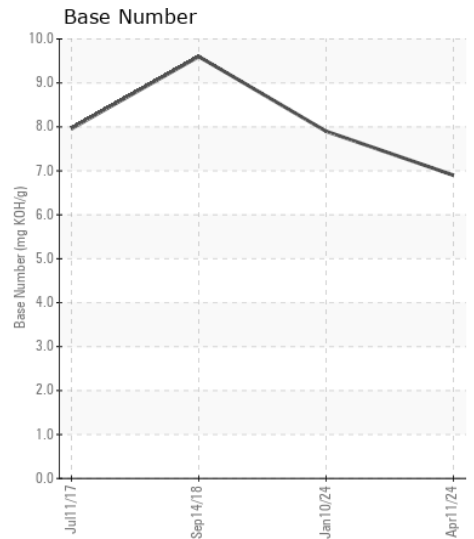
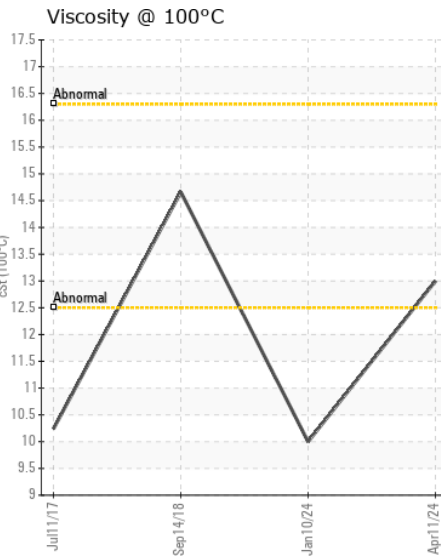
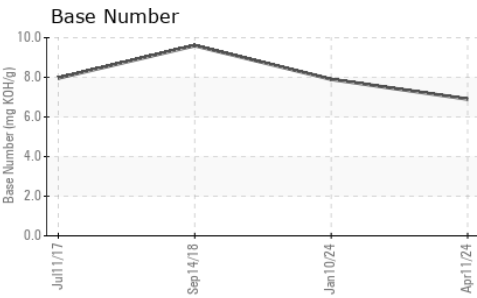
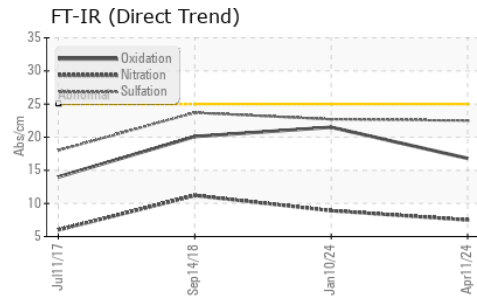
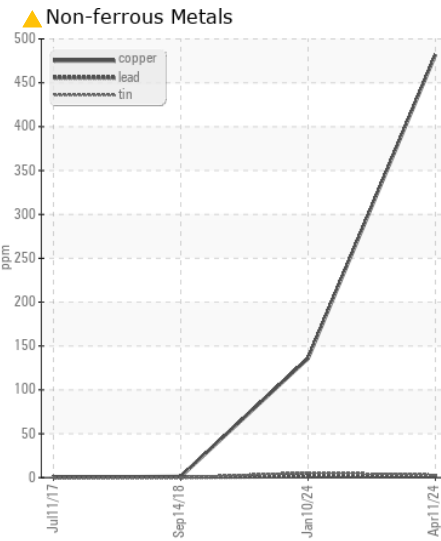
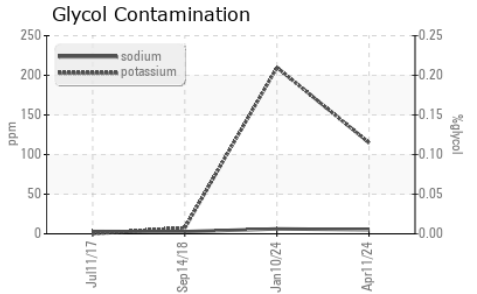
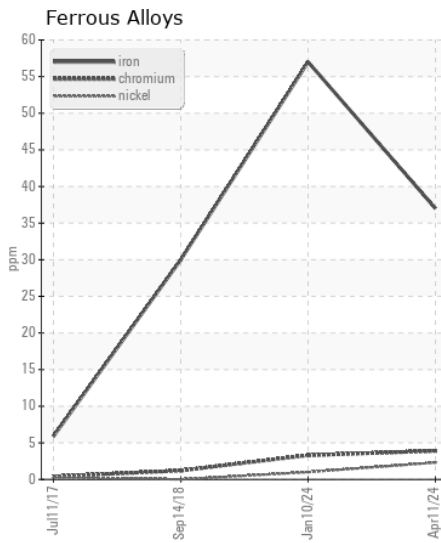
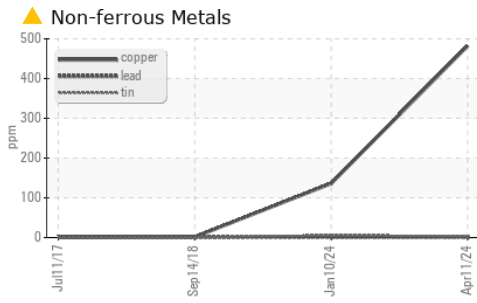
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0867009	WC0866980	WCMFC13891
Sample Date		Client Info		11 Apr 2024	10 Jan 2024	14 Sep 2018
Machine Age	hrs	Client Info		41297	24404	184242
Oil Age	hrs	Client Info		17000	24404	0
Filter Age	hrs	Client Info		17000	24404	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL

Iron	ppm	ASTM D5185m	>100	37	57	30
Chromium	ppm	ASTM D5185m	>20	4	3	1
Nickel	ppm	ASTM D5185m	>4	2	1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	1	<1	0
Aluminum	ppm	ASTM D5185m	>20	50	81	10
Lead	ppm	ASTM D5185m	>40	1	1	<1
Copper	ppm	ASTM D5185m	>330	482	136	1
Tin	ppm	ASTM D5185m	>15	3	6	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>25	11	8	9
Potassium	ppm	ASTM D5185m	>20	115	210	8
Fuel		WC Method	>5	<1.0	0.2	0.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.7	23.7
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	5	6	3
Boron	ppm	ASTM D5185m		491	36	27
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		124	43	69
Manganese	ppm	ASTM D5185m		3	4	<1
Magnesium	ppm	ASTM D5185m		605	547	473
Calcium	ppm	ASTM D5185m		2084	1659	2045
Phosphorus	ppm	ASTM D5185m		1593	692	1099
Zinc	ppm	ASTM D5185m		1766	829	1320
Sulfur	ppm	ASTM D5185m		5020	1909	2904
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	21.5	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.9	9.6
Visc @ 100°C	cSt	ASTM D445		13.0	10.0	14.66



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867009
Lab Number : 06152557
Unique Number : 10982635
Test Package : FLEET
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldrige

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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)