



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
30631
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936731	WC0915951	WC0882369
Sample Date		Client Info		01 Jul 2024	23 Mar 2024	28 Nov 2023
Machine Age	mls	Client Info		0	35636	0
Oil Age	mls	Client Info		0	19421	0
Filter Age	mls	Client Info		15000	19421	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	28	36
Chromium	ppm	ASTM D5185m	>20	<1	2	1
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	7	15	24
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	111	▲ 333	▲ 402
Tin	ppm	ASTM D5185m	>15	0	3	4
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

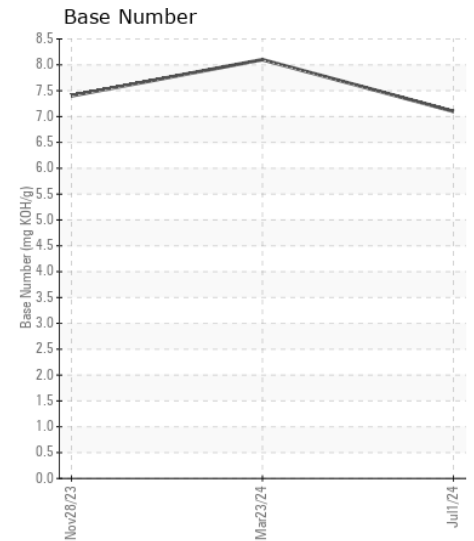
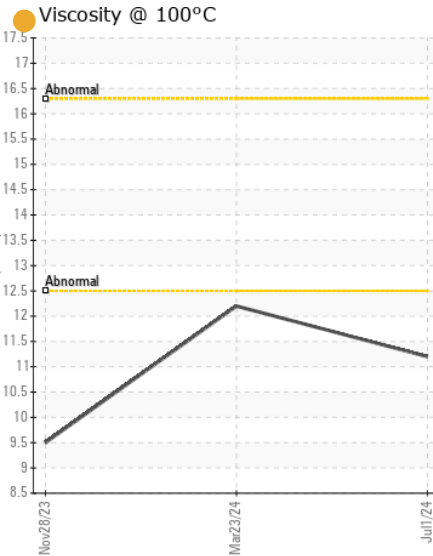
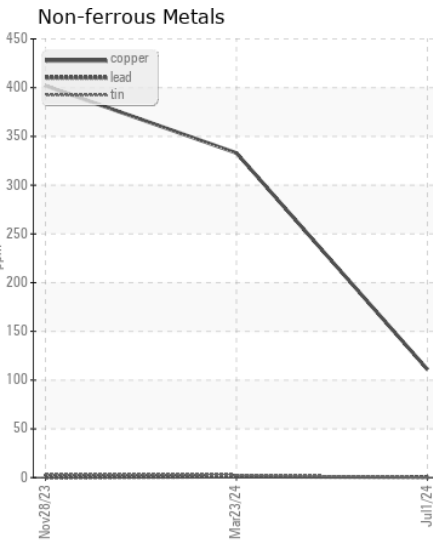
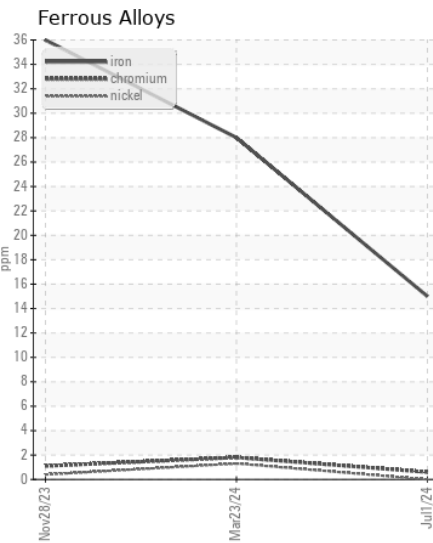
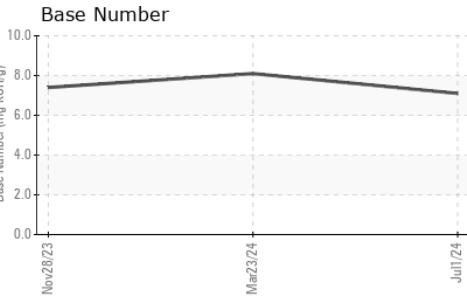
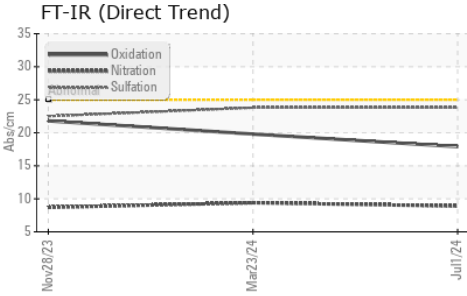
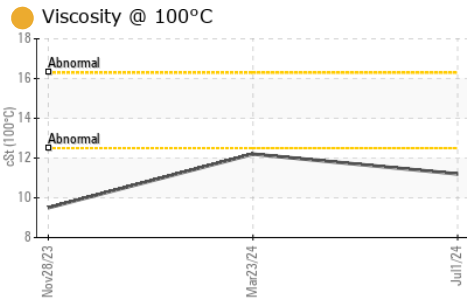
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	8	8
Potassium	ppm	ASTM D5185m	>20	14	47	75
Fuel	%	ASTM D3524	>5	<1.0	<1.0	0.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.4	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.8	22.5
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

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>118	2	<1	5
Boron	ppm	ASTM D5185m		193	205	33
Barium	ppm	ASTM D5185m		<1	2	0
Molybdenum	ppm	ASTM D5185m		114	117	45
Manganese	ppm	ASTM D5185m		<1	3	3
Magnesium	ppm	ASTM D5185m		586	637	538
Calcium	ppm	ASTM D5185m		1636	1594	1762
Phosphorus	ppm	ASTM D5185m		851	709	745
Zinc	ppm	ASTM D5185m		1012	842	967
Sulfur	ppm	ASTM D5185m		2969	2201	2172
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	19.8	21.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	8.1	7.4
Visc @ 100°C	cSt	ASTM D445		11.2	12.2	9.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936731 **Received** : 05 Jul 2024
Lab Number : 06229560 **Tested** : 09 Jul 2024
Unique Number : 11113053 **Diagnosed** : 09 Jul 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)