



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(T508959) 600HP
Machine Id
531089 [600HP]
Component
Diesel Engine
Fluid
MOBIL 1 SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0098783	PCA0101244	PCA0067762
Sample Date		Client Info		19 Jun 2024	06 Sep 2023	25 Dec 2022
Machine Age	hrs	Client Info		39373	35660	32558
Oil Age	hrs	Client Info		0	3000	4000
Filter Age	hrs	Client Info		0	3000	4000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	25	5	36
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	1	0	<1
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

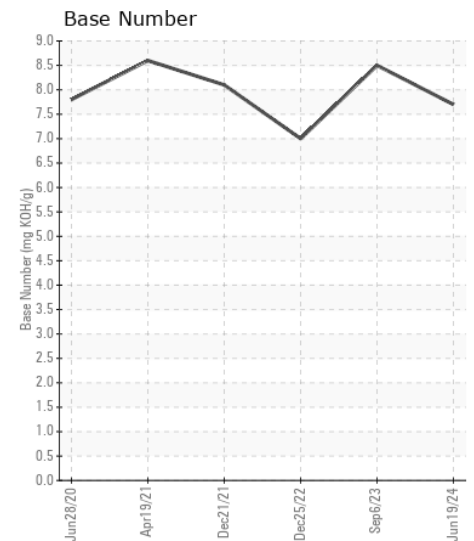
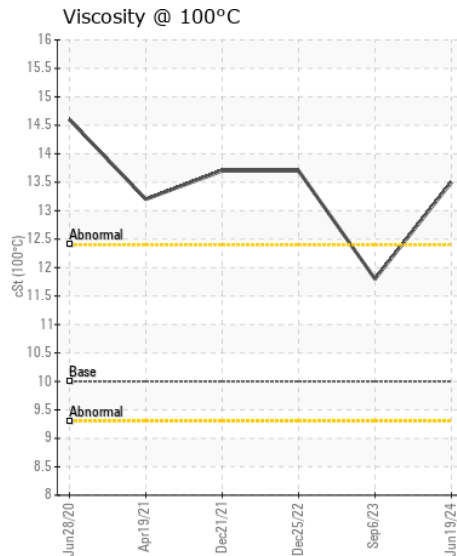
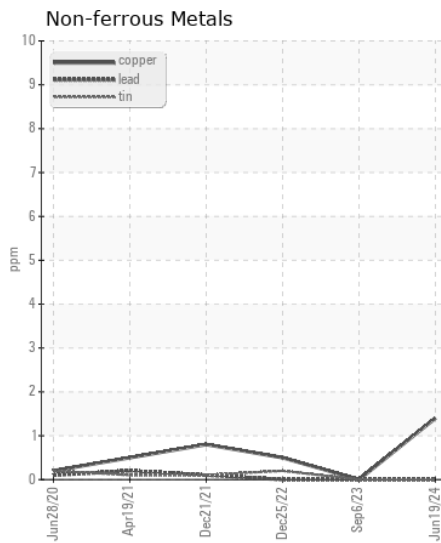
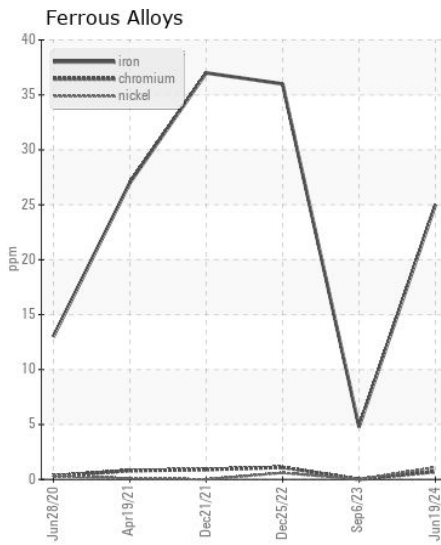
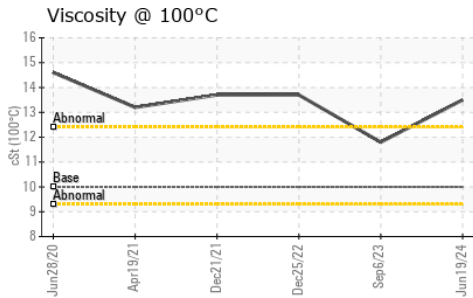
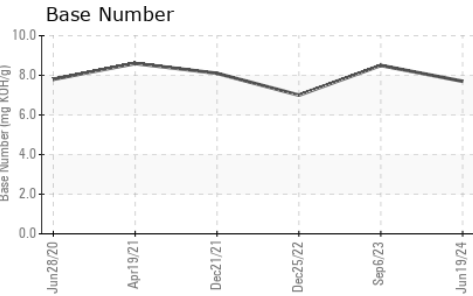
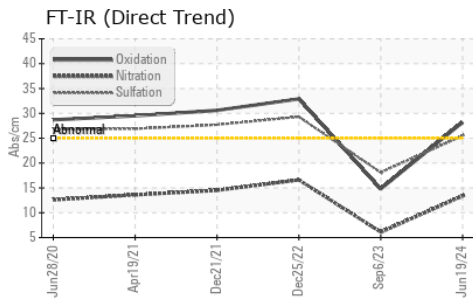
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	3	7
Potassium	ppm	ASTM D5185m	>20	3	0	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.2	1.4
Nitration	Abs/cm	*ASTM D7624	>20	13.4	6.1	16.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	18.1	29.3
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 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 D5185m		5	1	8
Boron	ppm	ASTM D5185m		14	2	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	59	63
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		1044	946	983
Calcium	ppm	ASTM D5185m		1237	1015	1171
Phosphorus	ppm	ASTM D5185m		1127	1049	1011
Zinc	ppm	ASTM D5185m		1450	1233	1323
Sulfur	ppm	ASTM D5185m		3748	3085	3137
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.2	14.8	32.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	8.5	7.0
Visc @ 100°C	cSt	ASTM D445	10	13.5	11.8	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098783
Lab Number : 06223004
Unique Number : 11101201
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)