



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6405 6405
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (10 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937943	WC0939338	WC0885913
Sample Date		Client Info		17 Jun 2024	07 May 2024	29 Jan 2024
Machine Age	hrs	Client Info		18698	18433	18063
Oil Age	hrs	Client Info		260	577	207
Filter Age	hrs	Client Info		260	577	207
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	24	9
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	11	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
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

CONTAMINATION

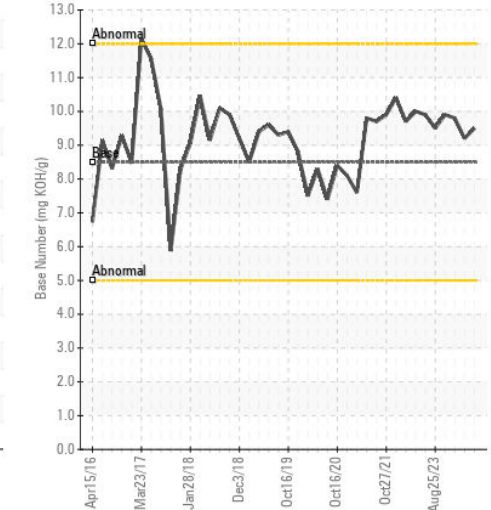
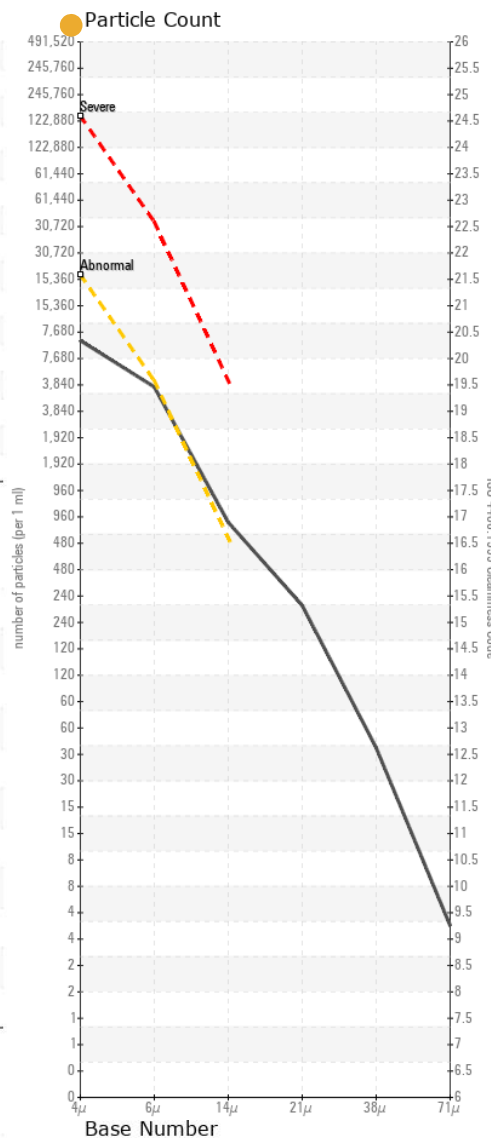
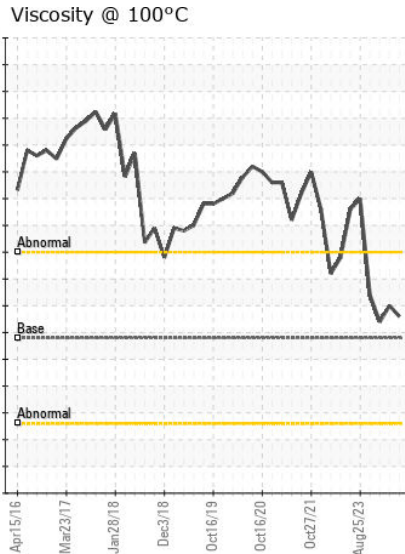
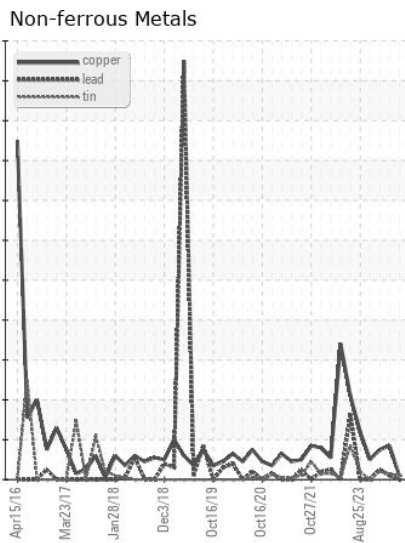
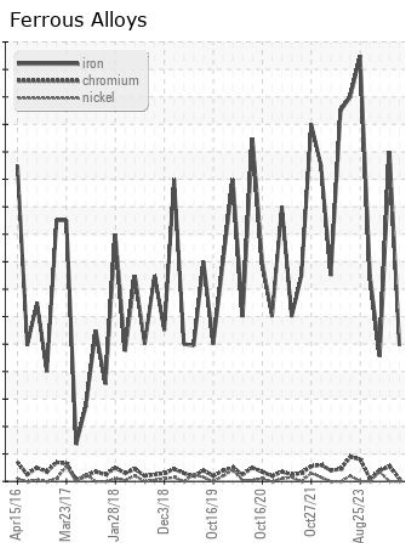
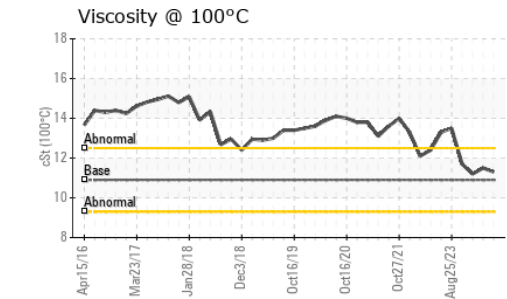
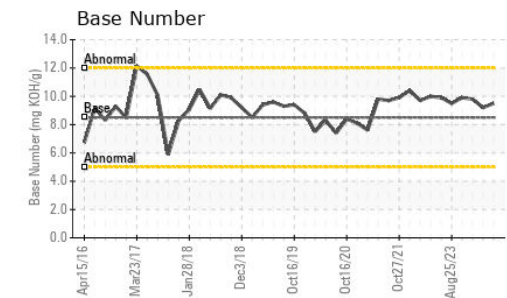
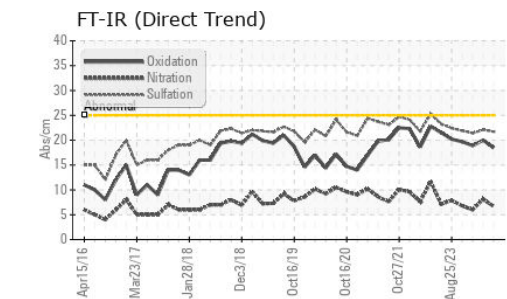
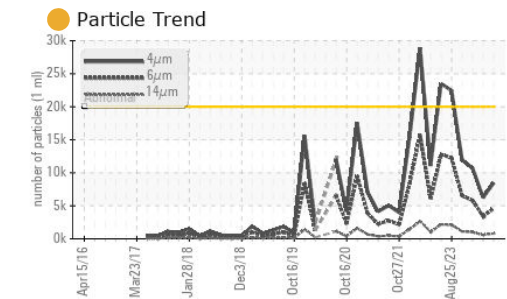
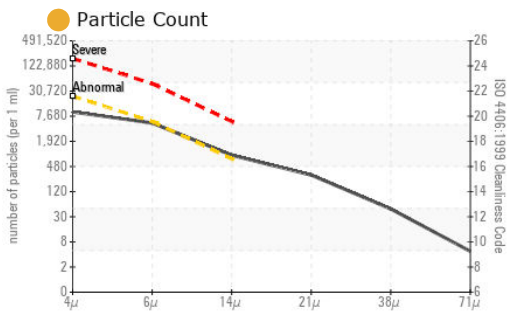
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	7	8	8
Potassium	ppm	ASTM D5185m	>20	2	0	2
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	0.6	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.1	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.1	21.4
Particles >4µm		ASTM D7647	>20000	8456	6246	10683
Particles >6µm		ASTM D7647	>5000	4607	3403	5820
Particles >14µm		ASTM D7647	>640	784	579	990
Particles >21µm		ASTM D7647	>160	264	195	334
Particles >38µm		ASTM D7647	>40	41	30	52
Particles >71µm		ASTM D7647	>10	4	3	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/17	20/19/16	21/20/17
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		2	2	0
Boron	ppm	ASTM D5185m	250	41	43	61
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	44	51	49
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	516	512	503
Calcium	ppm	ASTM D5185m	3000	1627	1761	1519
Phosphorus	ppm	ASTM D5185m	1150	776	772	755
Zinc	ppm	ASTM D5185m	1350	909	911	910
Sulfur	ppm	ASTM D5185m	4250	2939	2842	2490
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	20.0	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.5	9.2	9.8
Visc @ 100°C	cSt	ASTM D445	10.9	11.3	11.5	11.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937943 **Received** : 19 Jun 2024
Lab Number : 06214508 **Tested** : 20 Jun 2024
Unique Number : 11087372 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PrtCount, TBN)

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)

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