



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8029 8029
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861827	WC0784652	WC0808992
Sample Date		Client Info		15 Jan 2024	28 Aug 2023	15 May 2023
Machine Age	hrs	Client Info		21581	21378	21090
Oil Age	hrs	Client Info		203	271	826
Filter Age	hrs	Client Info		203	271	826
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	45	24	28
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	8	6	7
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	3	3	5
Tin	ppm	ASTM D5185m	>5	<1	<1	<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

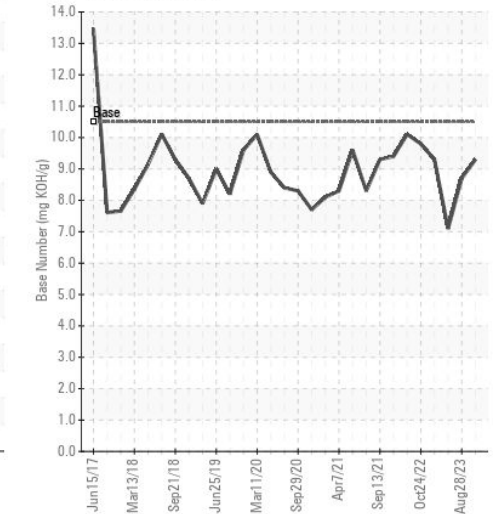
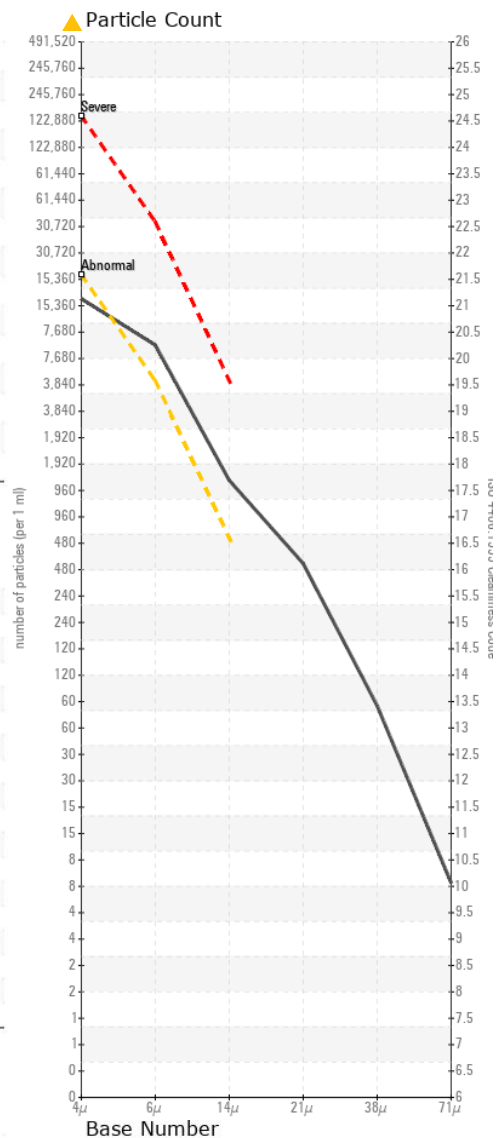
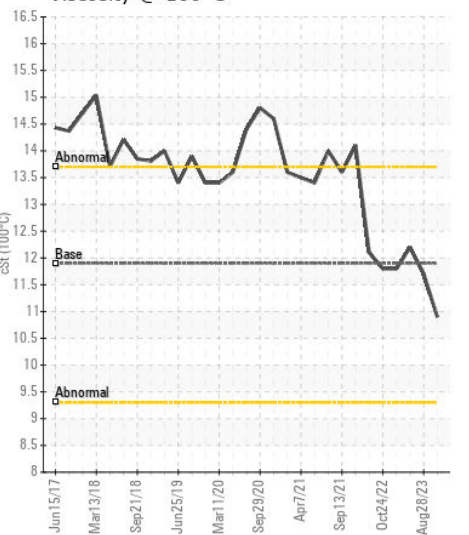
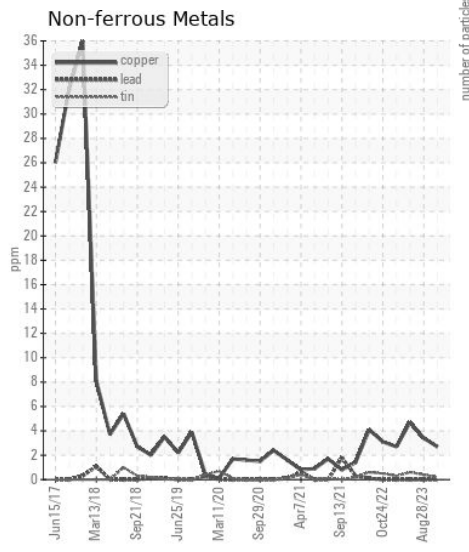
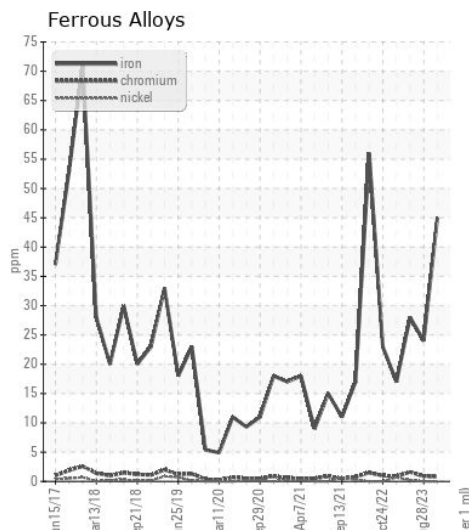
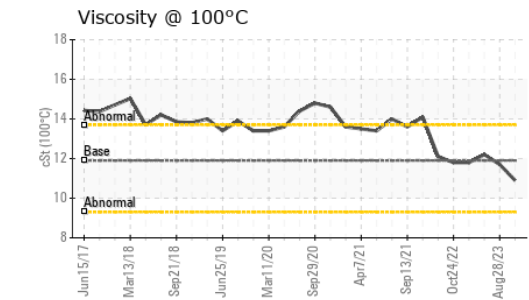
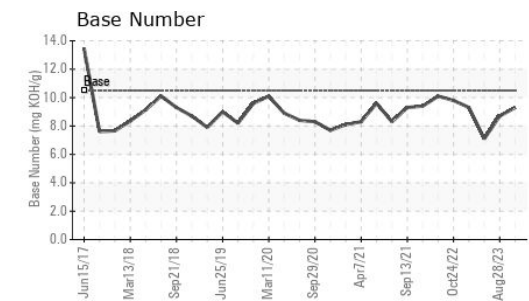
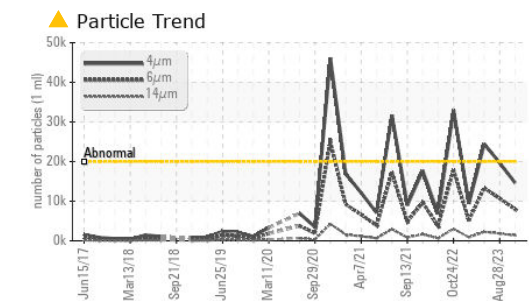
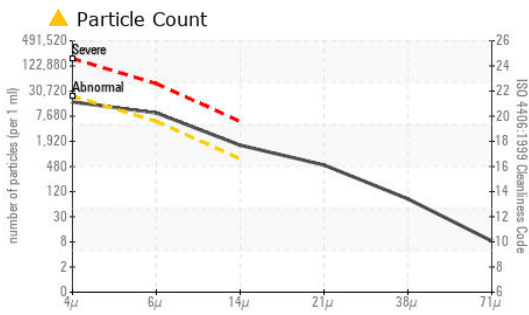
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	14	7	9
Potassium	ppm	ASTM D5185m	>20	4	1	1
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	0.4	0.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.6	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.4	24.6
Particles >4µm		ASTM D7647	>20000	14624	19670	24437
Particles >6µm		ASTM D7647	>5000	7967	10715	13312
Particles >14µm		ASTM D7647	>640	1356	1824	2266
Particles >21µm		ASTM D7647	>160	457	614	763
Particles >38µm		ASTM D7647	>40	71	95	118
Particles >71µm		ASTM D7647	>10	7	10	12
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/18	21/21/18	22/21/18
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		6	5	12
Boron	ppm	ASTM D5185m		45	37	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		44	48	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		518	555	623
Calcium	ppm	ASTM D5185m		1548	1685	1710
Phosphorus	ppm	ASTM D5185m		728	781	811
Zinc	ppm	ASTM D5185m		930	976	1024
Sulfur	ppm	ASTM D5185m		2579	3119	3006
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	18.5	24.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.3	8.7	7.1
Visc @ 100°C	cSt	ASTM D445	11.9	10.9	11.7	12.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861827 **Received** : 19 Jan 2024
Lab Number : 06065481 **Diagnosed** : 23 Jan 2024
Unique Number : 10836863 **Diagnostician** : 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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