



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6453 6453
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		WC0937749	WC0937907	WC0885795
Sample Date		Client Info		27 Jun 2024	06 May 2024	21 Dec 2023
Machine Age	hrs	Client Info		7740	7480	7178
Oil Age	hrs	Client Info		562	302	1078
Filter Age	hrs	Client Info		562	302	1078
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	20	9
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	10	7	8
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	11	9	9
Tin	ppm	ASTM D5185m	>15	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

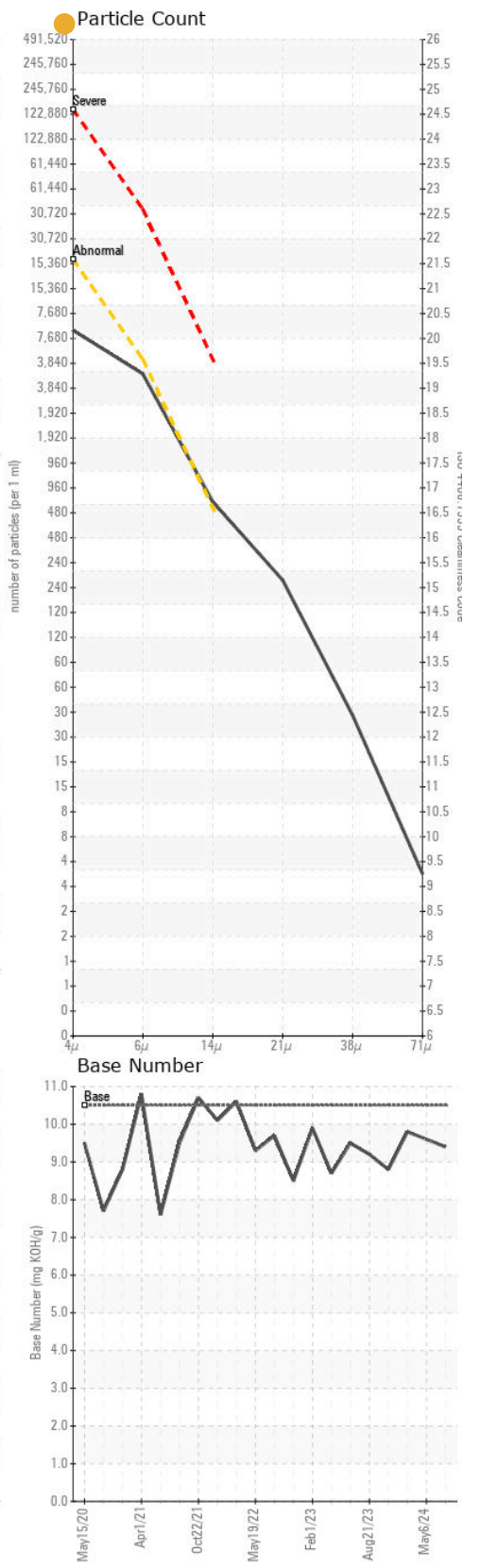
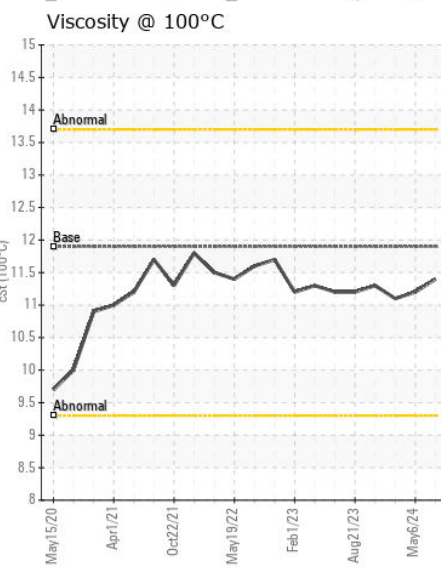
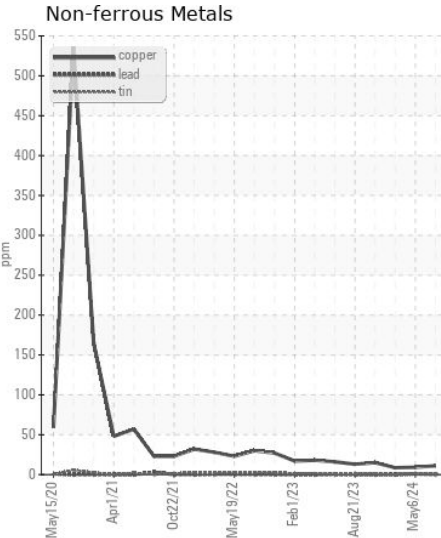
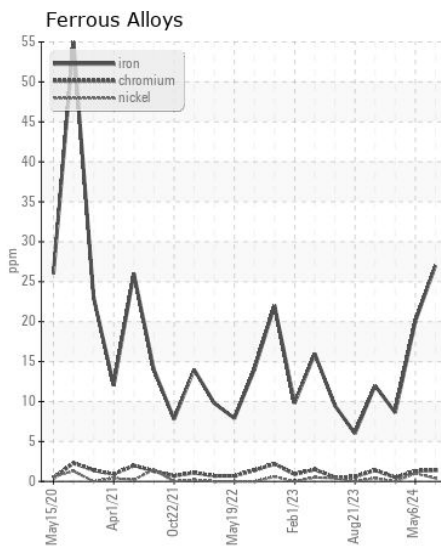
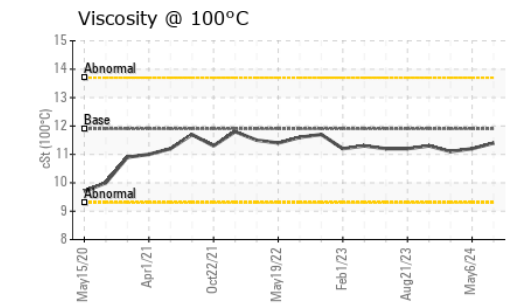
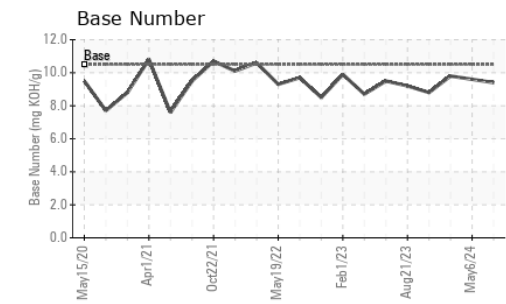
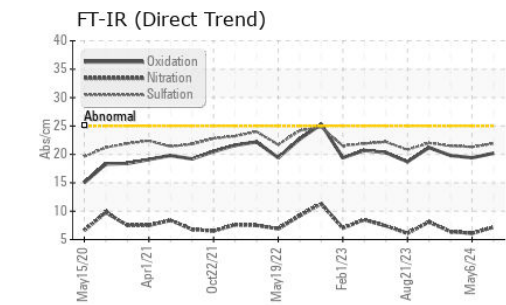
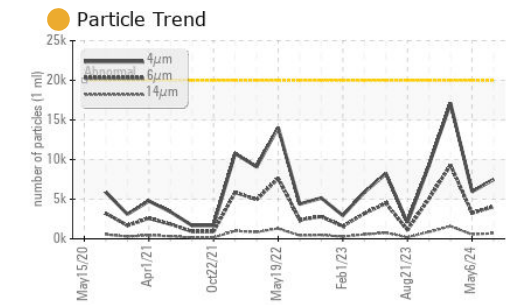
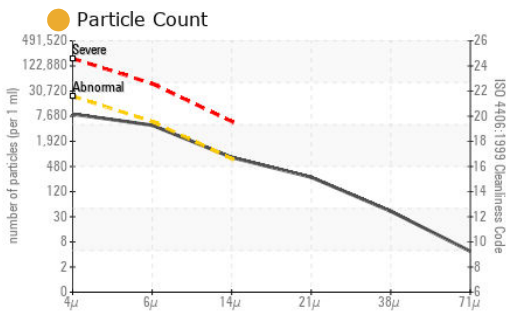
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	7	12
Potassium	ppm	ASTM D5185m	>20	11	8	10
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	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.1	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.3	21.5
Particles >4µm		ASTM D7647	>20000	7490	5959	17095
Particles >6µm		ASTM D7647	>5000	4080	3246	▲ 9312
Particles >14µm		ASTM D7647	>640	● 694	552	▲ 1585
Particles >21µm		ASTM D7647	>160	● 234	186	▲ 534
Particles >38µm		ASTM D7647	>40	36	29	▲ 82
Particles >71µm		ASTM D7647	>10	4	3	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	20/19/16	▲ 21/20/18
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		<1	4	2
Boron	ppm	ASTM D5185m		40	57	39
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		49	43	52
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		518	482	510
Calcium	ppm	ASTM D5185m		1746	1657	1719
Phosphorus	ppm	ASTM D5185m		758	774	745
Zinc	ppm	ASTM D5185m		966	916	936
Sulfur	ppm	ASTM D5185m		2378	2798	2499
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	19.4	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.4	9.6	9.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.2	11.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937749 **Received** : 01 Jul 2024
Lab Number : 06225687 **Tested** : 03 Jul 2024
Unique Number : 11103884 **Diagnosed** : 03 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KV40, 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)

CAROLINA SUNROCK
 PO BOX 25
 BUTNER, NC
 US 27509
 Contact: Leigh Dennis
 rdennis@thesunrockgroup.com
 T: (919)575-4505
 F: (919)575-0162