

WEAR **ATTENTION** CONTAMINATION ABNORMAL FLUID CONDITION **ATTENTION**

Mobile Fleet 544 544

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (8 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0955978	WC0861829	WC0808809
Sample Date		Client Info		08 Jul 2024	15 Jan 2024	20 Jul 2023
Machine Age	hrs	Client Info		2815	2637	2296
Oil Age	hrs	Client Info		199	341	385
Filter Age	hrs	Client Info		199	341	385
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>120	18	10	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1 0	3	1
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	A 25	10	0
Potassium	ppm	ASTM D5185m	>20	6	<1	1
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<u> </u>
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.7	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.2	20.8
Particles >4µm		ASTM D7647	>20000	6368	3097	2018
Particles >6µm		ASTM D7647	>5000	3469	1687	1099
Particles >14µm		ASTM D7647	>640	590	287	187
Particles >21µm		ASTM D7647	>160	199	97	63
Particles >38µm		ASTM D7647	>40	31	15	10
Particles >71µm		ASTM D7647	>10	3	2	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	19/18/15	18/1//15
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
Udor	scalar	*Visual	NORIVIL	NORML	NORML	NORML
Emuisitied water	scalar	visuai	>0.2	NEG	NEG	NEG
Sodium	nnm	ASTM D5185m		4	2	0
Boron	npm	ASTM D5185m	0	79	57	66
Barium	nnm	ASTM D5185m	0	0	0	2
Molybdenum	npm	ASTM D5185m	0	50	44	50
Manganese	nom	ASTM D5185m	U	-1	<1	<1
Magnesium	ppm	ASTM D5185m	0	509	528	471
Calcium	ppm	ASTM D5185m	U	1693	1550	1602
Phosphorus	ppm	ASTM D5185m		717	769	731
Zinc	ppm	ASTM D5185m		901	920	871
Sulfur	ppm	ASTM D5185m		2495	2554	2575
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	19.4	19.2
Base Number (BN)	ma KOH/a	ASTM D2896	9.4	10.0	9.8	9.9
Visc @ 100°C	cSt	ASTM D445	14	12.2	11.2	11.9



Test Package : CONST (Additional Tests: FuelDilution, PrtCount, TBN) Certificate L2367 rdennis@thesunrockgroup.com 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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