

WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Area

Mobile Fleet

8032 8032

Diesel Engine

MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0919045	History1 WC0867069	History2 WC0784632
No corrective action is recommended at this time. Oil and filter change	Sample Date		Client Info		15 Apr 2024	26 Oct 2023	18 Aug 2023
at the time of sampling has been noted. Resample at the next service	Machine Age	hrs	Client Info		18271	18024	17749
interval to monitor.	Oil Age	hrs	Client Info		526	279	334
interval to monitor.	Filter Age	hrs	Client Info		526	279	334
	Oil Changed	1110	Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	30	12	17
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		15	8	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m		6	2	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	19	9	8
CONTRAINMENTON	Potassium	ppm	ASTM D5185m	>20	9	7	4
There is a high amount of particulates present in the oil.	Fuel		WC Method		<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	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.0	7.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.9	21.4
	Particles >4µm		ASTM D7647	>20000	9578	18487	19618
	Particles >6μm		ASTM D7647	>5000	<u> </u>	<u> </u>	1 0687
	Particles >14µm		ASTM D7647	>640	<u> </u>	<u></u> 1714	<u> </u>
	Particles >21μm		ASTM D7647		<u> </u>	<u></u> 577	<u>^</u> 613
	Particles >38μm		ASTM D7647		<u> </u>	<u></u> 89	<u>^</u> 95
	Particles >71µm		ASTM D7647		5	9	10
	Oil Cleanliness		ISO 4406 (c)		<u>A</u> 20/20/17	<u>21/21/18</u>	21/21/18
	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	Sodium	ppm	ASTM D5185m		24	18	9
T LOID CONDITION	Boron	ppm	ASTM D5185m		36	45	36
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	<1	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		52	49	47
	Managana		ACTM DE105				4

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

ppm

ppm

Base Number (BN) mg KOH/g ASTM D2896 10.5

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D445 11.9

ppm ASTM D5185m

ppm ASTM D5185m

ppm ASTM D5185m Abs/.1mm *ASTM D7414 >25

<1

513

1628

798

961

3009

20.0

9.7

11.5

0

566

1566

911

999

2731

18.7

9.2

11.7

<1

493

1637

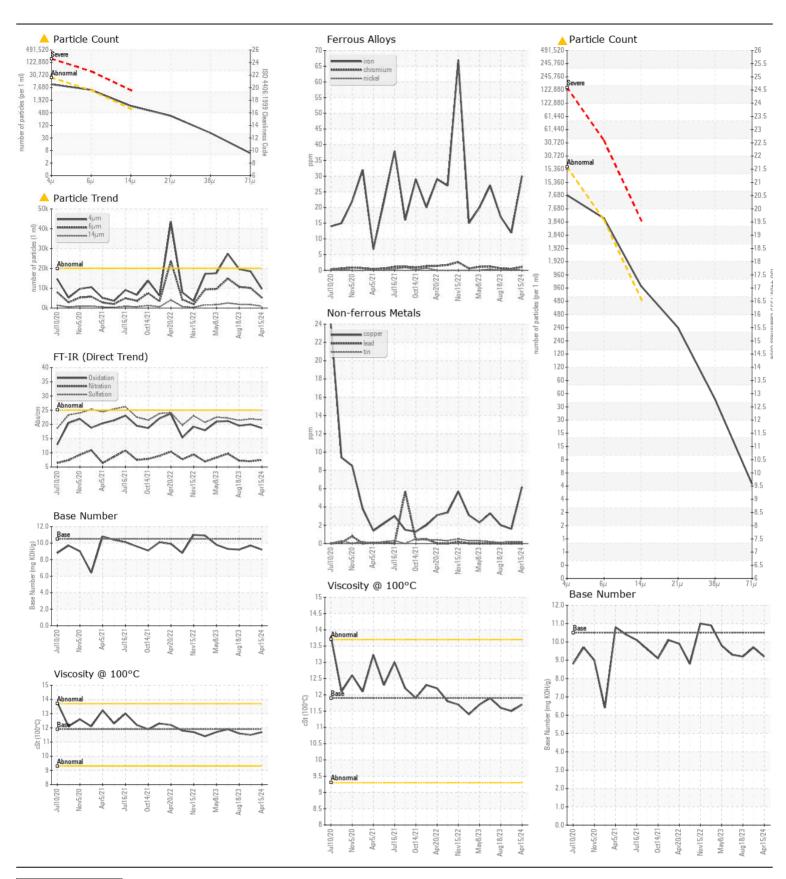
749

919 2744

19.5

9.2

11.6





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0919045 : 06151845

Tested Unique Number : 10981923 Diagnosed

Received

Test Package : CONST (Additional Tests: PrtCount, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 18 Apr 2024 : 19 Apr 2024 - Don Baldridge

: 17 Apr 2024

Contact: Leigh Dennis rdennis@thesunrockgroup.com T: (919)575-4505

* - 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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