

137

Fluid

Machine Id Component **Diesel Engine**

NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION NORMAL

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0035331	DC0033378	DC003062
	Sample Date		Client Info		15 Mar 2024	11 Jan 2024	18 Sep 202
	Machine Age	hrs	Client Info		250	250	250
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<100	3	4	2
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	~7	0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	0
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		2	2	0
	Tin	ppm	ASTM D5185m		_ <1	<1	0
	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	6	6	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	4	<1
	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		0.7	1.3	1.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.2	6.8
	Sulfation	Abs/.1mm	*ASTM D7415		17.3	18.8	18.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Scalai	visuai	>0.2		NLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	4	<1
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		45	58	47
	Calcium	ppm	ASTM D5185m		2319	2242	2452
	Phosphorus	ppm	ASTM D5185m		913	918	927
	Zinc	ppm	ASTM D5185m		1065	1062	1123
	Sulfur	ppm	ASTM D5185m		4454	3642	4297
	Ovidation		******	. OF	0.0	0.7	0.0

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

9.7

6.4

13.7

8.8

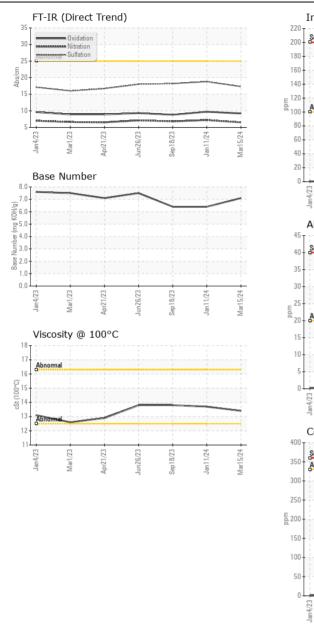
13.8

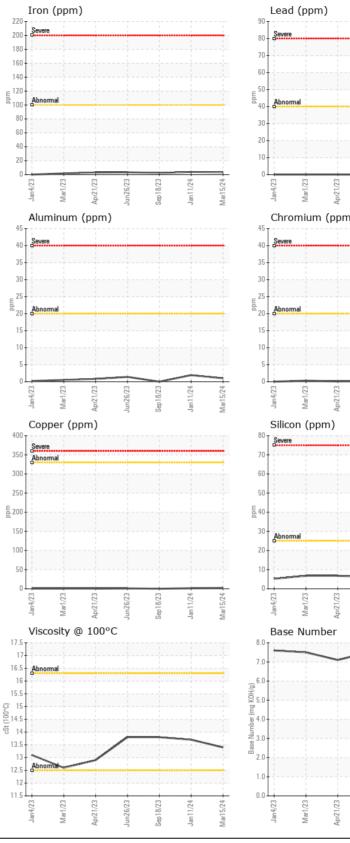
6.4

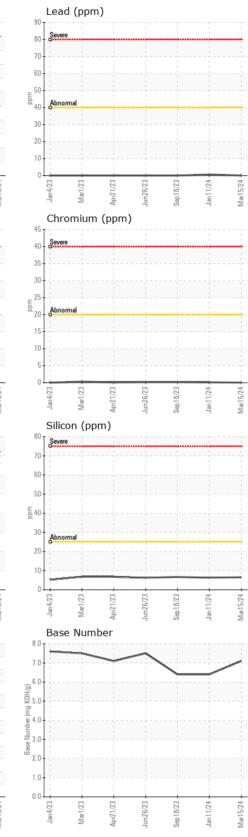
9.2

7.1

13.4







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SIMS ARG Sample No. Received 3100 WEEDON STREET : DC0035331 : 12 Apr 2024 ø Lab Number : 06147054 BALTIMORE, MD Tested : 15 Apr 2024 : 15 Apr 2024 - Sean Felton US 21226 Unique Number : 10977132 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: MARK NUZZO Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark.nuzzo@simsmm.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)355-1488 F: (410)355-5423 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MARK NUZZO - BALBAL Page 2 of 2