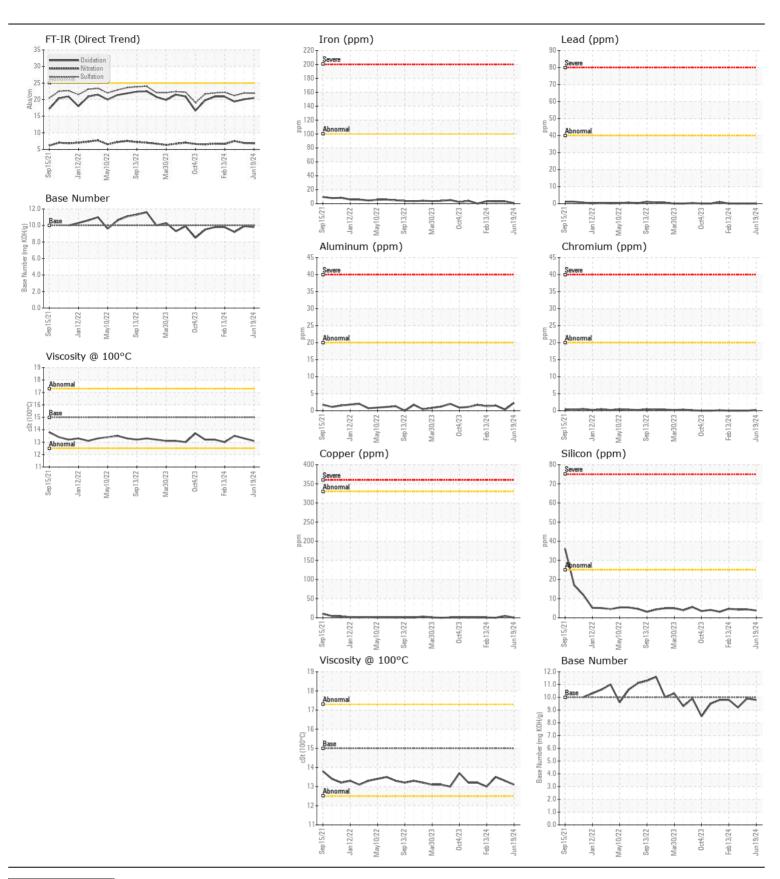
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

[SWO-072944]

**EPIROC TMG21SED0165** 

Diesel Engine

RECOMMENDATION Test UOM Method	1.1 21/41			
	Limit/Abn	Current	History1	History2
Sample Number Client Info		VCP451360	VCP452722	VCP438682
Resample at the next service interval to monitor.  Sample Date  Client Info		19 Jun 2024	01 May 2024	28 Mar 2024
Machine Age hrs Client Info		5887	5608	5235
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	<1	3	3
Chromium ppm ASTM D5185m	>20	<1	0	0
All component wear rates are normal.  Nickel ppm ASTM D5185m	>4	0	0	0
Titanium ppm ASTM D5185m		0	0	0
Silver ppm ASTM D5185m	>3	0	0	0
Aluminum ppm ASTM D5185m	>20	2	<1	2
Lead ppm ASTM D5185m	>40	0	0	0
Copper ppm ASTM D5185m	>330	<1	5	<1
Tin ppm ASTM D5185m	>15	0	0	<1
Vanadium ppm ASTM D5185m		0	0	0
White Metal scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal scalar *Visual	NONE	NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m	>25	4	4	4
Potassium ppm ASTM D5185m	>20	1	0	<1
There is no indication of any contamination in the oil.  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	0.1	0.1	0.1
Nitration Abs/cm *ASTM D7624	>20	6.8	6.9	7.5
Sulfation Abs/.1mm *ASTM D7415	>30	21.9	22.0	21.2
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	NORMI
Emulsified Water scalar *Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m		1	4	2
The BN result indicates that there is suitable alkalinity remaining in the		33	53	53
oil. The condition of the oil is suitable for further service		0	<1	0
Molybdenum ppm ASTM D5185m		38	39	31
Manganese ppm ASTM D5185m		0	<1	<1
Magnesium ppm ASTM D5185m		496	467	570
Calcium ppm ASTM D5185m		1674	1759	1602
Phosphorus ppm ASTM D5185m		878	883	888
Zinc ppm ASTM D5185m		1160	984	1051
Sulfur ppm ASTM D5185m		2895	2972	3294
Oxidation Abs/.1mm *ASTM D7414		20.5	20.1	19.4
Dago Number (DN) I/OU/- ACTM DOOGS	10	9.8	9.9	9.2
Base Number (BN) mg KOH/g ASTM D2896  Visc @ 100°C cSt ASTM D445		13.1	13.3	13.5







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP451360 Lab Number : 06220762

**Tested** Unique Number: 11098959 Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

Received : 26 Jun 2024 : 27 Jun 2024 : 27 Jun 2024 - Jonathan Hester

4400 LEWISBURG RD BIRMINGHAM, AL US 35207

Contact: STEPHANI BRITTON sbritton@saiia.com;doug.bogart@wearcheck.com

SAIIA CONSTRUCTION LLC

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.

T: (205)943-2268 F: (205)943-2269 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)