WEAR CONTAMINATION **FLUID CONDITION**

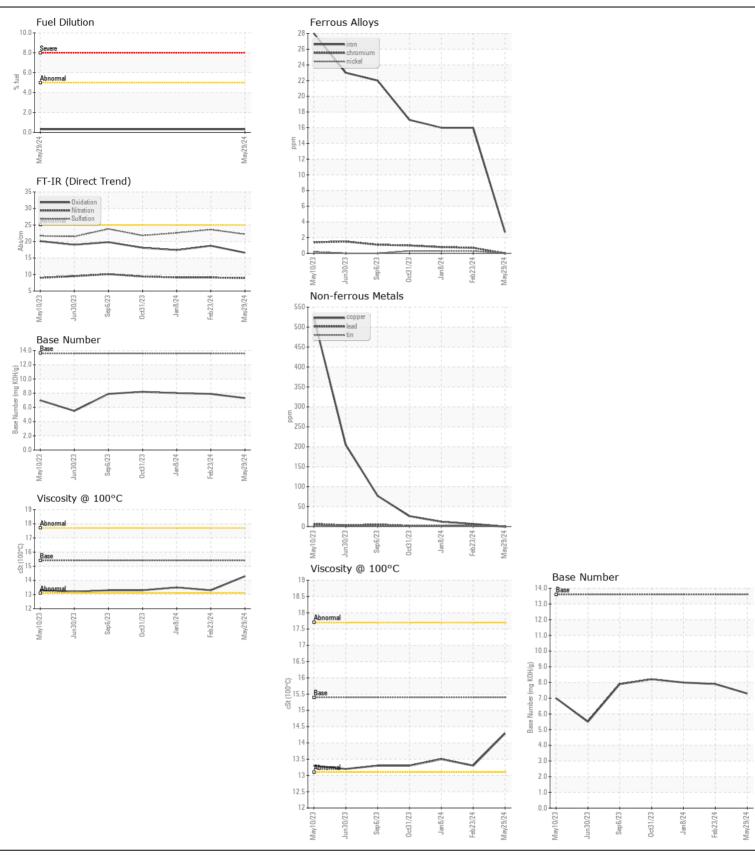
NORMAL NORMAL NORMAL

Machine Id

EPIROC D65-10SF TMG22SED0499

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212778	JR0202358	JR019764
	Sample Date		Client Info		29 May 2024	23 Feb 2024	08 Jan 202
	Machine Age	hrs	Client Info		1973	1528	1272
	Oil Age	hrs	Client Info		1973	1272	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	3	16	16
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	3
	Lead	ppm	ASTM D5185m		0	3	2
	Copper	ppm	ASTM D5185m		0	7	12
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\25	8	9	12
	Potassium	ppm	ASTM D5185m		1	1	2
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D316311		0.3	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.1	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		22.2	23.6	22.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	0
LOID CONDITION	Boron	ppm	ASTM D5185m		290	157	213
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	3
	Molybdenum	ppm	ASTM D5185m		239	259	257
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		817	1013	834
	Calcium	ppm	ASTM D5185m		1325	1742	1499
	Phosphorus	ppm	ASTM D5185m		889	900	955
	Zinc	ppm	ASTM D5185m		1020	1290	1154
	Sulfur	ppm	ASTM D5185m		3374	3328	3388
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	18.7	17.4
	Base Number (BN)				7.3	7.9	8.0
	2000 HUILDON (DIN)	9 1.011/9					0.0







Certificate L2367

Laboratory Sample No.

: JR0212778 Lab Number : 06195291 Unique Number : 11057414

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

Received : 30 May 2024 **Tested** Diagnosed

: 04 Jun 2024

: 04 Jun 2024 - Wes Davis Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

6811 HWY 64 EAST KNIGHTDALE, NC US 27545 Contact: PAUL SPRUILL

WAKE STONE CORP

paulspruill@wakestonecorp.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)

T: F: