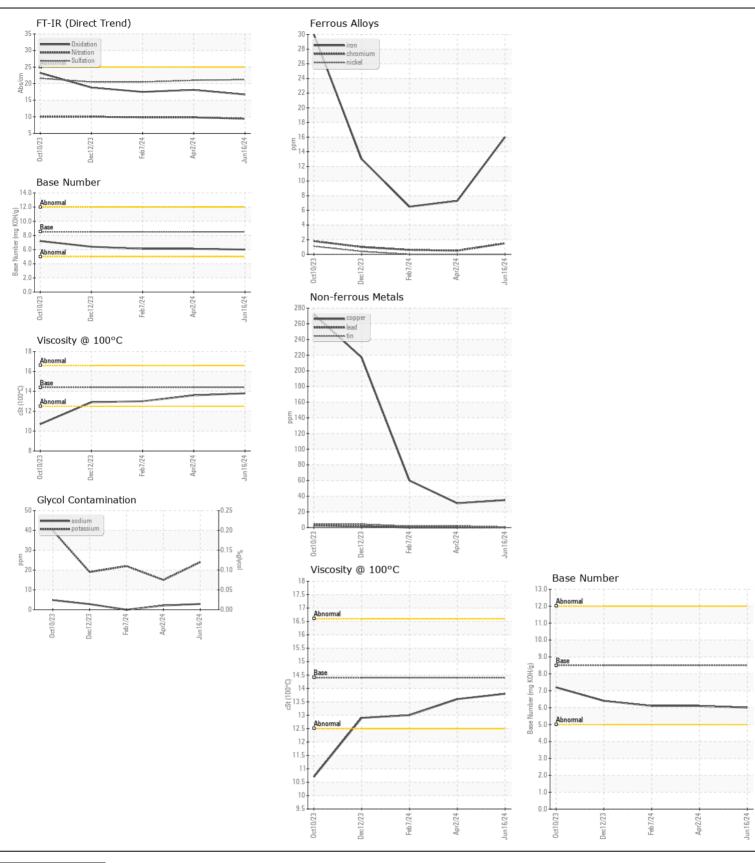
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 2-272

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0895218	WC0926253	WC0899962
	Sample Date		Client Info		16 Jun 2024	02 Apr 2024	07 Feb 2024
	Machine Age	hrs	Client Info		3826	3079	2338
	Oil Age	hrs	Client Info		747	741	747
	Filter Age	hrs	Client Info		747	741	747
	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	16	7	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	5	4	6
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	35	31	60
	Tin	ppm	ASTM D5185m	>15	<1	2	2
	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	17	5	5
	Potassium	ppm	ASTM D5185m	>20	24	15	22
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	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.8	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.0	20.5
	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	>158	3	2	0
	Boron	ppm	ASTM D5185m	250	15	33	36
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	48	22	30
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	391	732	737
	Calcium	ppm	ASTM D5185m	3000	2204	1428	1300
	Phosphorus	ppm	ASTM D5185m	1150	865	730	689
	Zinc	ppm	ASTM D5185m	1350	1009	878	828
	0						0=00
	Sulfur	ppm	ASTM D5185m	4250	3444	2649	2503
		ppm Abs/.1mm	*ASTM D5185m		3444 16.7	2649 18.1	2503 17.5
	Sulfur	Abs/.1mm		>25			







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0895218 Lab Number : 06234315 Unique Number: 11123149

Tested Diagnosed

Received

: 11 Jul 2024

: 14 Jul 2024

: 14 Jul 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: Glycol)

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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