WEAR CONTAMINATION **FLUID CONDITION**

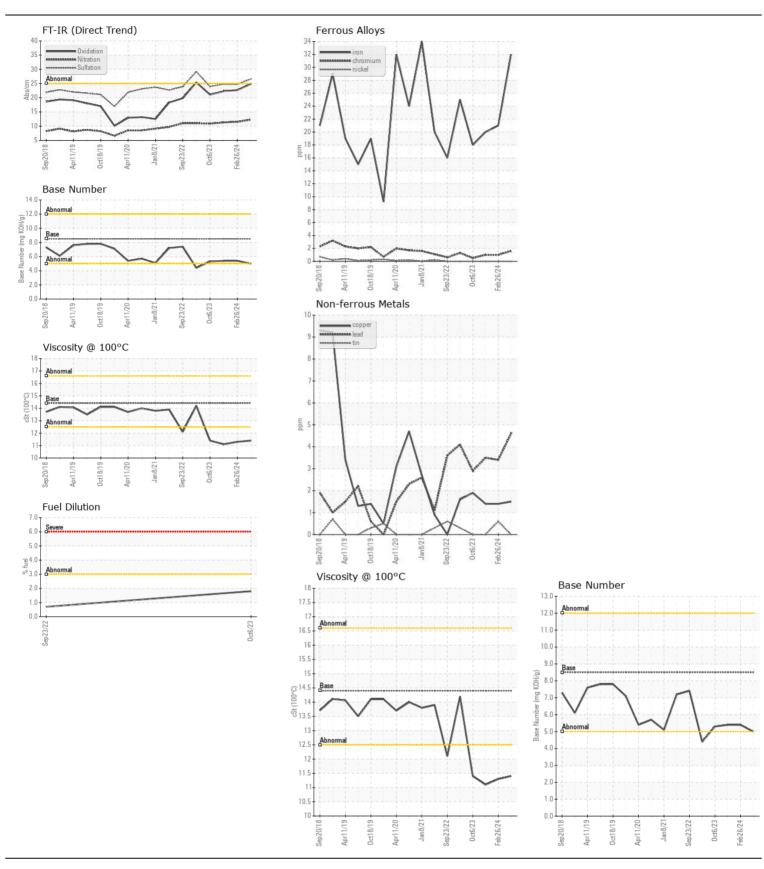
NORMAL NORMAL NORMAL

Machine Id

INTERNATIONAL 1565

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0886811	WC0886820	WC088679
	Sample Date		Client Info		21 Jun 2024	26 Feb 2024	16 Dec 202
	Machine Age	mls	Client Info		531593	503327	0
	Oil Age	mls	Client Info		0	24471	3982
	Filter Age	mls	Client Info		0	24471	3982
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
MEAD	lvan		ACTM DE10Em	. 105	20	04	20
WEAR	Iron	ppm	ASTM D5185m ASTM D5185m		32 2	21	20
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm			0	0	<1
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		4	0	0
	Lead	ppm	ASTM D5185m		5	3	4
	Copper	ppm ppm	ASTM D5185m		2	1	1
	Tin		ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	75	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	5	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7	4	<1
	Fuel	%	ASTM D3524		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624		12.3	11.5	11.3
	Sulfation	Abs/.1mm	*ASTM D7415		26.6	24.7	24.8
	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	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	2
	Boron	ppm	ASTM D5185m	250	3	3	5
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		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	59	61
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1036	965	996
	Calcium	ppm	ASTM D5185m	3000	1176	1049	1100
	Phosphorus	ppm	ASTM D5185m	1150	1068	1041	1078
	Zinc	ppm	ASTM D5185m	1350	1354	1312	1319
	Sulfur	ppm	ASTM D5185m	4250	3373	2766	2916
	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.9	22.7	22.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	5.4	5.4
	Visc @ 100°C	cSt	ASTM D445		11.4	11.3	11.1







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886811 Lab Number : 06225942

Unique Number : 11109435

Received

Tested Diagnosed

: 03 Jul 2024 : 03 Jul 2024 - Jonathan Hester

: 02 Jul 2024

Test Package: FLEET (Additional Tests: FuelDilution) 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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