WEAR CONTAMINATION FLUID CONDITION

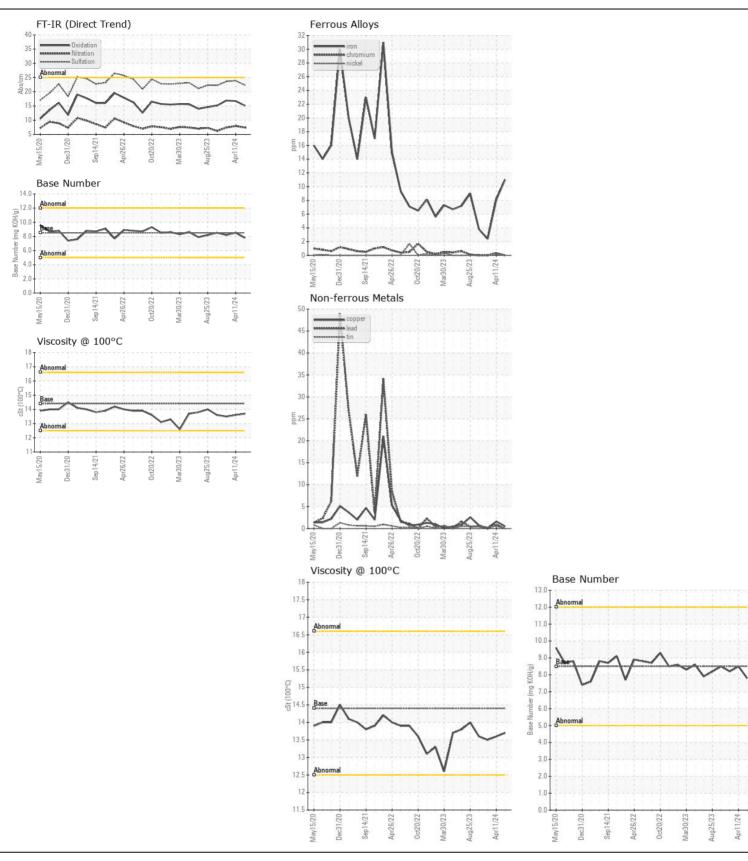
NORMAL NORMAL

Machine Id

## **MISS SHEILA**

Component
Port Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MW0071262	-	MW0048152
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		07 Jun 2024	11 Apr 2024	13 Dec 202
	Machine Age	hrs	Client Info		32134	30950	28681
	Oil Age	hrs	Client Info		1184	1205	1222
	Filter Age	hrs	Client Info		1184	1205	1222
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>75	11	8	2
	Chromium	ppm	ASTM D5185m	>8	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	<1	0
	Titanium	ppm	ASTM D5185m	>3	<1	<1	2
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	3	3
	Lead	ppm	ASTM D5185m	>18	0	<1	0
	Copper	ppm	ASTM D5185m	>80	<1	2	0
	Tin	ppm	ASTM D5185m	>14	0	<1	<1
	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	>20	3	5	6
	Potassium	ppm	ASTM D5185m	>20	0	2	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1	0.8	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.9	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	23.9	23.6
	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	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	<1	<1
The DN or collision is the title on its collection of the live in	Boron	ppm	ASTM D5185m	250	293	385	309
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	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	101	141	121
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	450	531	683	663
	Calcium	ppm	ASTM D5185m	3000	1806	1654	1499
	Phosphorus	ppm	ASTM D5185m		1065	915	766
	Zinc	ppm	ASTM D5185m		1310	954	851
	Sulfur	ppm	ASTM D5185m		3947	3140	2522
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	16.7	16.9
	Base Number (BN)	0 0	ASTM D2896		7.8	8.5	8.2
	Visc @ 100°C	cSt	ASTM D445		13.7	13.6	13.5







Certificate L2367

Laboratory Sample No.

: MW0071262 Lab Number : 06211308 Unique Number : 11084172 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024

**Tested** : 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

**ARTCO - ADM AG SERVICES & OIL SEEDS** 

2505 BLUFF ROAD MT VERNON, IN US 47620

Contact: JOE FLOYD joseph.floyd@adm.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)

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F: