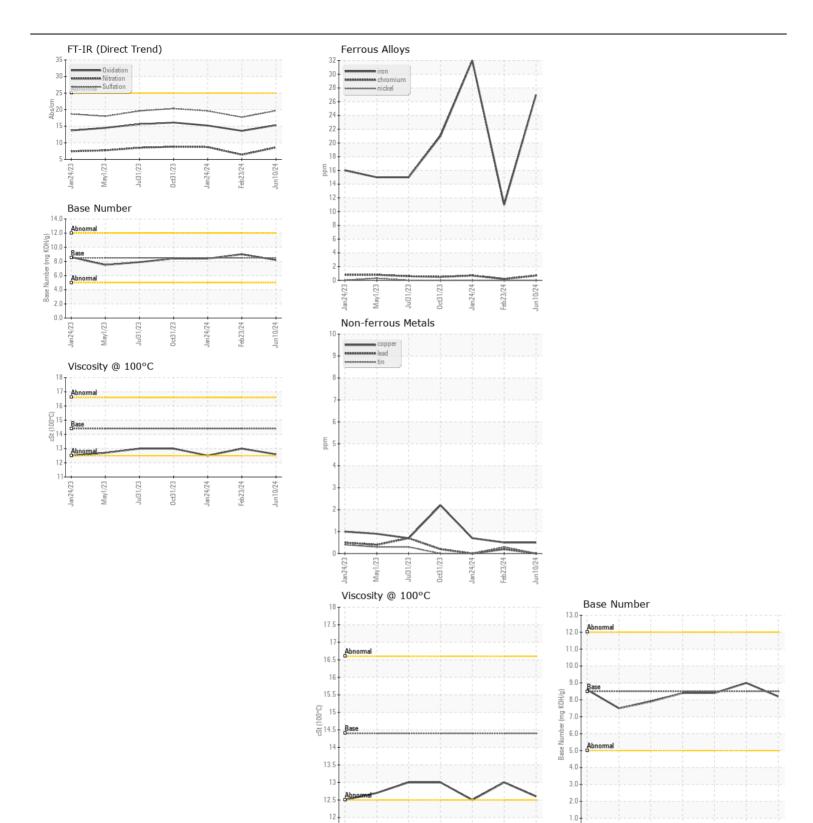
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

1640 Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0858203	-	WC085813
	Sample Date		Client Info		10 Jun 2024	23 Feb 2024	24 Jan 202
	Machine Age	hrs	Client Info		12733	12219	12064
	Oil Age	hrs	Client Info		520	520	520
	Filter Age	hrs	Client Info		520	520	520
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	27	11	32
	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	7	5	13
	Lead	ppm	ASTM D5185m	>45	0	<1	0
	Copper	ppm	ASTM D5185m	>85	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	5	4	4
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. FLUID CONDITION	Potassium	ppm	ASTM D5185m	>20	13	8	21
	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	0.6	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.4	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	17.7	19.6
	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 Emulsified Water	scalar	*Visual	NORML >0.2	NORML	NORML	NORM
		Scalar	VISUAI	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>158	2	1	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	11	10	9
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	65	59	60
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		965	906	902
	Calcium	ppm	ASTM D5185m		1195	1030	1119
	Phosphorus	ppm	ASTM D5185m		1088	1057	993
	Zinc	ppm	ASTM D5185m		1288	1240	1170
	Sulfur	ppm	ASTM D5185m	4250	3765	3269	3021
	Out detail	A1 / -	*AOTA / D744 :	0.5	450	400	4 = 0
	Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		15.3 8.2	13.6 9.0	15.2 8.4







Certificate L2367

Laboratory

Sample No.

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

Lab Number : 06211059 Unique Number : 11083923

: WC0858203

11.5

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

Mav1/23

Received

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis

Jun 10/24

: 14 Jun 2024

Apple Valley Waste - Hometown Location 155 Airport Road Selinsgrove, PA

0ct31/23

US 17870 Contact: Service Manager

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)

Submitted By: CODY COLON

May1/23

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