

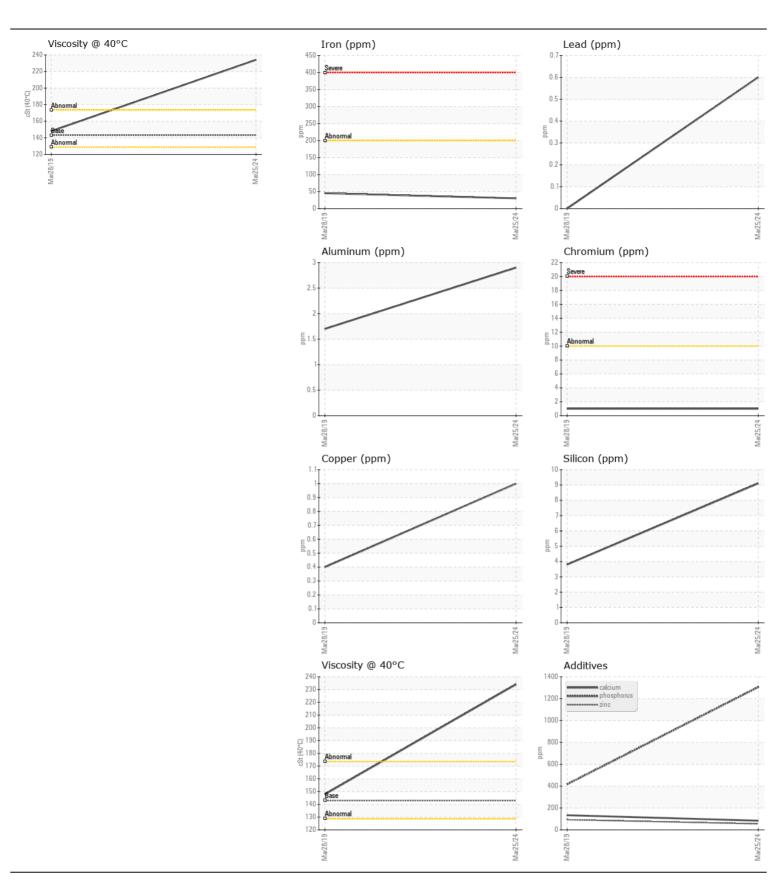
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



Machine Id **CATERPILLAR AP555F AP-12 AUGER**

Left Conveyor

Test	GEAR OIL SAE 80W90 (2 QTS)							
Resample at the next service interval to monitor. Sample Number Client Info Sample Number Client Info Sample Number Client Info Sample Number Client Info 2176 1136 Sample Number Client Info 2176 1136 Sample Number Client Info 2176 1136 Silvar Phrs Client Info O 0	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2
Sample Date Client Info 25 Mar 2014 28 Mar 2019							,	,
Oil Age hrs Client Info 0 0 0 0 0 0 0 0 0	nesample at the next service interval to monitor.	•						
Filter Age		·	hrs	Client Info		2178	1136	
Cilchanged Cilchit Info Changed Rifler Changed		Oil Age	hrs	Client Info		300	0	
Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	
No. No.		Oil Changed		Client Info		Changed	N/A	
Iron		Filter Changed		Client Info		N/A	N/A	
All component wear rates are normal. Chromium ppm ASTM D5185m >10 1 1		Sample Status				NORMAL	ABNORMAL	
All component wear rates are normal. Chromium ppm ASTM D5185m >10 1 1	WEAR	Iron	maa	ASTM D5185m	>200	30	45	
Nickel ppm ASTM D5185m >10 <1 0								
Titanium ppm ASTM D5185m <1 <1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1 <-1							0	
Silver		Titanium		ASTM D5185m			<1	
Lead		Silver		ASTM D5185m		0	0	
Copper		Aluminum	ppm	ASTM D5185m		3	2	
Tin		Lead	ppm	ASTM D5185m		<1	0	
Vanadium ppm ASTM D5185m C1 0		Copper	ppm	ASTM D5185m		1	<1	
White Metal Yellow Metal Scalar Yusual NONE		Tin	ppm	ASTM D5185m		<1	0	
Yellow Metal Scalar Visual NONE NO		Vanadium	ppm	ASTM D5185m		<1	0	
Silicon ppm ASTM D5185m p 4		White Metal	scalar	*Visual	NONE	LIGHT	▲ HEAVY	
Potassium ppm ASTM D5185m >20 1 4		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 1 4	CONTAMINATION	Silicon	maa	ASTM D5185m		9	4	
Water WC Method >0.2 NEG NEG					>20			
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NOR	There is no indication of any contamination in the oil.	Water				NEG	NEG	
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NOR		Silt	scalar	*Visual	NONE	LIGHT	NONE	
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE	NONE	
Odor Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual >0.2 NEG NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m >170 3 3		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 400 208 22		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 400 208 22	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	3	3	
Barium ppm ASTM D5185m 200 1 0 Molybdenum ppm ASTM D5185m 12 7 41 Manganese ppm ASTM D5185m 1 2 Magnesium ppm ASTM D5185m 12 5 2 Calcium ppm ASTM D5185m 150 84 134 Phosphorus ppm ASTM D5185m 1650 1305 416 Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9				ASTM D5185m	400	208	22	
Manganese ppm ASTM D5185m 1 2 Magnesium ppm ASTM D5185m 12 5 2 Calcium ppm ASTM D5185m 150 84 134 Phosphorus ppm ASTM D5185m 1650 1305 416 Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9	The condition of the on is acceptable for the time in service.	Barium	ppm	ASTM D5185m	200	1	0	
Magnesium ppm ASTM D5185m 12 5 2 Calcium ppm ASTM D5185m 150 84 134 Phosphorus ppm ASTM D5185m 1650 1305 416 Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9		Molybdenum	ppm	ASTM D5185m	12	7	41	
Calcium ppm ASTM D5185m 150 84 134 Phosphorus ppm ASTM D5185m 1650 1305 416 Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9		Manganese	ppm	ASTM D5185m		1	2	
Phosphorus ppm ASTM D5185m 1650 1305 416 Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9		Magnesium	ppm	ASTM D5185m	12	5	2	
Zinc ppm ASTM D5185m 125 55 93 Sulfur ppm ASTM D5185m 22500 26430 18437 Visc @ 40°C cSt ASTM D445 143 234 147.9		Calcium	ppm	ASTM D5185m	150	84	134	
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Visc @ 40°C		Zinc	ppm	ASTM D5185m	125	55	93	
	Papart Id: POSMOU [M/I ISCA P] 061 /0010 /Caparatad: 04/17/0024 12:40:24\ Pay: 1	Visc @ 40°C	cSt					





Certificate L2367

Laboratory Sample No.

: DC0034924 Lab Number : 06149019 Unique Number : 10979097 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 **Tested** : 16 Apr 2024

Diagnosed : 17 Apr 2024 - Sean Felton

US 21771 Contact: JONATHAN KUENTZ jonathank@rosscontracting.com

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MOUNT AIRY, MD

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)