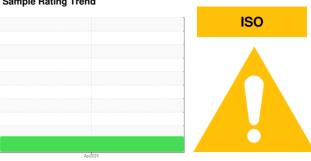


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **TOTE 108**

New (Unused) Oil

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

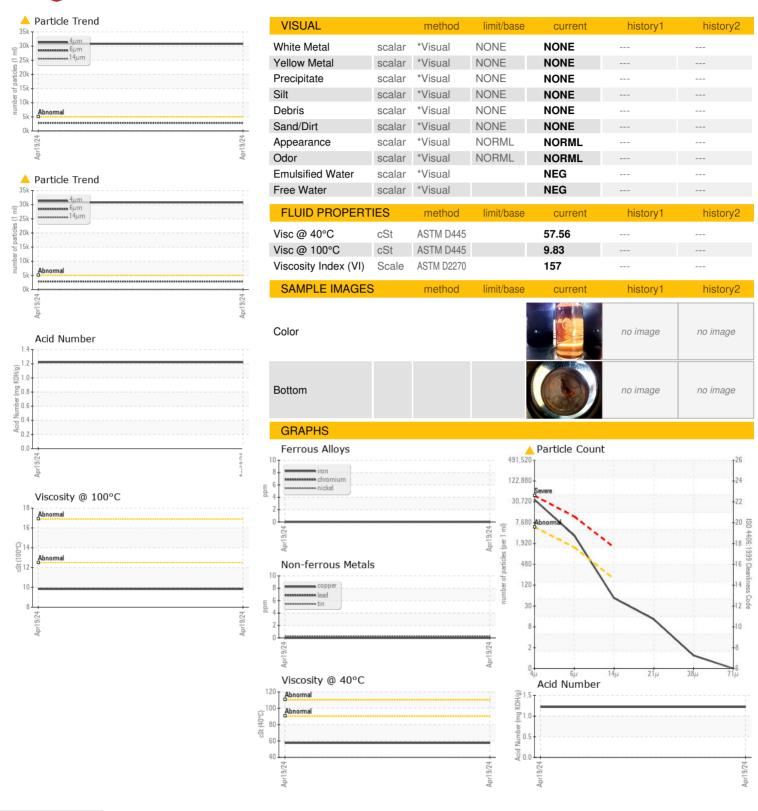
Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Irron	MPLE INFORMA	TION	method	limit/base	current	history1	history
Machine Age hrs Client Info	ple Number		Client Info		TLC0001632		
Oil Age hrs Client Info N/A	ple Date		Client Info		19 Apr 2024		
Cilient Info	nine Age h	ırs	Client Info		0		
Sample Status method limit/base current history1 h Iron ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 0 ALuminum ppm ASTM D5185m >5 0 Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m q1 Barium	.ge h	ırs	Client Info		0		
WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >5 0 Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 0 Lead ppm ASTM D5185m >5 0 Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0	hanged		Client Info		N/A		
Iron	ple Status				ABNORMAL		
Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >5 0 Siliver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 0 Lead ppm ASTM D5185m 0 Compper ppm ASTM D5185m 97 Calcalum ppm ASTM D5185m 40	EAR METALS		method	limit/base	current	history1	history2
Nickel	р	pm	ASTM D5185m	>5	0		
Silver	mium p	pm	ASTM D5185m	>5	0		
Silver	el p	pm	ASTM D5185m	>5	0		
Aluminum ppm ASTM D5185m >5 1	ium p	pm	ASTM D5185m		0		
Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Tin ppm ASTM D5185m >5 <1	r p	pm	ASTM D5185m	>5	0		
Copper ppm ASTM D5185m >5 0 Tin ppm ASTM D5185m >5 <1	ninum p	pm	ASTM D5185m	>5	1		
Copper ppm ASTM D5185m >5 0 Tin ppm ASTM D5185m >5 <1	р	pm	ASTM D5185m	>5	0		
ASTM D5185m S	per p	pm	ASTM D5185m	>5	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 h Boron ppm ASTM D5185m 97 Barium ppm ASTM D5185m 40 Molybdenum ppm ASTM D5185m 40 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 128 Calcium ppm ASTM D5185m 657 Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 2760 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1				>5	<1		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 h Boron ppm ASTM D5185m 97 Barium ppm ASTM D5185m 40 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 128 Magnesium ppm ASTM D5185m 657 Calcium ppm ASTM D5185m 479 Phosphorus ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m >20 <			ASTM D5185m		0		
Boron ppm ASTM D5185m 97			ASTM D5185m		0		
Barium	DITIVES		method	limit/base	current	history1	history
Molybdenum ppm ASTM D5185m 40 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 128 Calcium ppm ASTM D5185m 657 Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Water % ASTM D6185m >20 3 Particles >4µm ASTM D7647 <td>n p</td> <td>pm</td> <td>ASTM D5185m</td> <td></td> <td>97</td> <td></td> <td></td>	n p	pm	ASTM D5185m		97		
Manganese ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 128 Calcium ppm ASTM D5185m 657 Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m >15 9 Potassium ppm ASTM D5185m >20 3 Water % ASTM D5185m >20 3 Particles >4µm ASTM D5185m >20 3 Particles >6µm ASTM D7647 <td>ım p</td> <td>pm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td></td> <td></td>	ım p	pm	ASTM D5185m		<1		
Magnesium ppm ASTM D5185m 128 Calcium ppm ASTM D5185m 657 Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D5185m 0 0 FLUID CLEANLINESS method limit/base current history1 h Particles > 4µm ASTM D7647 >5000 30741 Particles > 21µm <td>bdenum p</td> <td>pm</td> <td>ASTM D5185m</td> <td></td> <td>40</td> <td></td> <td></td>	bdenum p	pm	ASTM D5185m		40		
Calcium ppm ASTM D5185m 657 Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 30741 Particles >6μm ASTM D7647 >1300 2852 Particles >38μm <td< td=""><td>ganese p</td><td>pm</td><td>ASTM D5185m</td><td></td><td>0</td><td></td><td></td></td<>	ganese p	pm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 479 Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D5185m >20 3 FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 30741 Particles >6μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >71μm ASTM D7647	nesium p	pm	ASTM D5185m		128		
Zinc ppm ASTM D5185m 539 Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D5185m >20 3 FLUID CLEANLINESS method limit/base current history1 h Particles >4µm ASTM D7647 >1300 2852	ium p	pm	ASTM D5185m		657		
Sulfur ppm ASTM D5185m 2760 CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >1300 42852	phorus p	pm	ASTM D5185m		479		
CONTAMINANTS method limit/base current history1 h Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 Δ 30741 Particles >514μm ASTM D7647 >40 11	р	pm	ASTM D5185m		539		
Silicon ppm ASTM D5185m >15 9 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 3 Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 h Particles >4µm ASTM D7647 >5000 ▲ 30741 Particles >6µm ASTM D7647 >1300 ▲ 2852 Particles >14µm ASTM D7647 >160 45 Particles >21µm ASTM D7647 >40 11 Particles >38µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 FLUID DEGRADATION method limit/base current history1 h	ır p	pm	ASTM D5185m		2760		
Sodium ppm ASTM D5185m 0	NTAMINANTS		method	limit/base	current	history1	history
Potassium ppm ASTM D5185m >20 3 Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 30741 Particles >6μm ASTM D7647 >1300 2852 Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Dil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION <t< td=""><td>on p</td><td>pm</td><td>ASTM D5185m</td><td>>15</td><td>9</td><td></td><td></td></t<>	on p	pm	ASTM D5185m	>15	9		
Water % ASTM D6304 NEG FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 ▲ 30741 Particles >6μm ASTM D7647 >1300 ▲ 2852 Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >	um p	pm	ASTM D5185m		0		
FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 ▲ 30741 Particles >6μm ASTM D7647 >1300 ▲ 2852 Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Poil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION method limit/base current history1 h	ssium p	pm	ASTM D5185m	>20	3		
Particles >4μm ASTM D7647 >5000 ▲ 30741 Particles >6μm ASTM D7647 >1300 ▲ 2852 Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION method limit/base current history1 h	er %	6	ASTM D6304		NEG		
Particles >6μm ASTM D7647 >1300 2852 Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Poil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION method limit/base current history1 h	UID CLEANLINES	SS	method	limit/base	current	history1	history
Particles >14μm ASTM D7647 >160 45 Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION method limit/base current history1 h							
Particles >21μm ASTM D7647 >40 11 Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 22/19/13 FLUID DEGRADATION method limit/base current history1 h	cles >6µm		ASTM D7647	>1300	<u>^</u> 2852		
Particles >38μm ASTM D7647 >10 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 Δ 22/19/13 FLUID DEGRADATION method limit/base current history1 h	cles >14μm				45		
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 22/19/13 FLUID DEGRADATION method limit/base current history1 h	cles >21µm		ASTM D7647	>40	11		
Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 22/19/13 FLUID DEGRADATION method limit/base current history1 h	•		ASTM D7647	>10	1		
FLUID DEGRADATION method limit/base current history1 h	cles >71μm		ASTM D7647	>3	0		
•	leanliness		ISO 4406 (c)	>19/17/14	<u>22/19/13</u>		
A 1111 (A)	UID DEGRADATI	ION	method	limit/base	current	history1	history
Acid Number (AN) mg KOH/g ASTM D8045 1.22	Number (AN)	ng KOH/g	ASTM D8045		1.22		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: TLC0001632 Lab Number : 06160881 Unique Number : 10996304

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 30 Apr 2024

: 30 Apr 2024 - Jonathan Hester Diagnosed

Test Package: PLANT (Additional Tests: FT-IR, ICP-NewOil, KV100, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

SUPPLY PRO 115 EMPIRE WAY ATLANTA, GA

US 30354 Contact: MICHAEL JACKSON mjackson@supplypro1.com

T: (470)991-1693

Report Id: SUPATLGA [WUSCAR] 06160881 (Generated: 04/30/2024 13:20:36) Rev: 1

Contact/Location: MICHAEL JACKSON - SUPATLGA