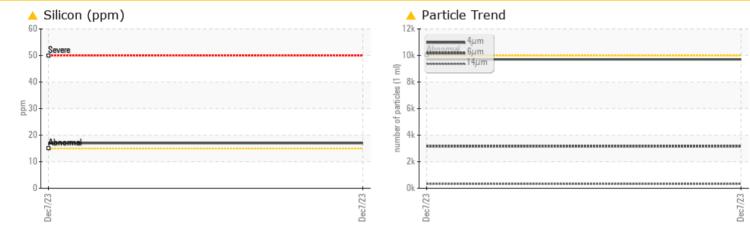
# **PROBLEM SUMMARY**

Sample Rating Trend
DIRT
DIRT



#### Machine Id SCVM Component Hydraulic System Fluid MOBIL DTE ULTRA 24 ISO 32 (--- GAL)

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# PROBLEMATIC TEST RESULTS

THODELMATIOT	LOTINE	.00210				
Sample Status				ABNORMAL		
Silicon	ppm	ASTM D5185m	>15	<u> </u>		
Particles >6µm		ASTM D7647	>2500	<b>A</b> 3163		
Particles >14µm		ASTM D7647	>320	<u> </u>		
Particles >21µm		ASTM D7647	>80	<mark>/</mark> 93		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>		
PrtFilter					no image	no image

Customer Id: LINORA Sample No.: PH0003687 Lab Number: 06029991 Test Package: PLANT

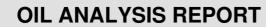


To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



Sample Rating Trend

DIRT



#### Machine Id SCVM Component Hydraulic System Fluid MOBIL DTE ULTRA 24 ISO 32 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### Particle Filter (Magn: 200 x)



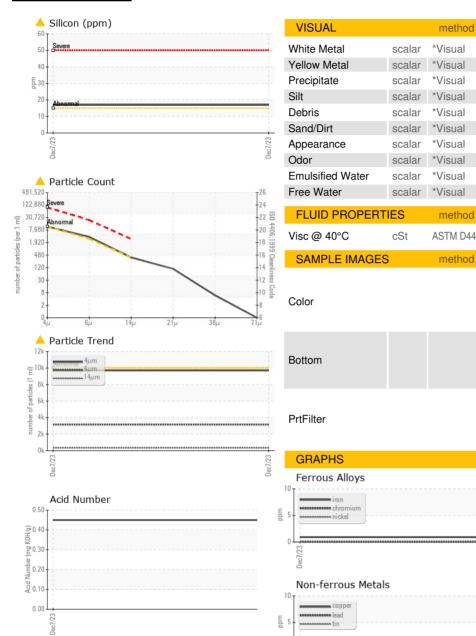
SAMPLE INFORM		method	limit/base	current	history1	history2
			IIIIIVDase			Thistory2
Sample Number		Client Info		PH0003687		
Sample Date		Client Info		07 Dec 2023		
Machine Age	mths	Client Info		0		
Oil Age	mths	Client Info		2		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	1		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
•						
Magnesium	ppm	ASTM D5185m		0		
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		0 39		
Calcium						
-	ppm	ASTM D5185m		39		
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		39 333		
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 333 556		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		39 333 556 1500 current		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>15	39 333 556 1500 current ▲ 17		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	>15	39 333 556 1500 current	   history1	  
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>15	39 333 556 1500 current ▲ 17 0	   history1 	   history2 
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	39 333 556 1500 current ▲ 17 0 2	  history1 	   history2  
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20 limit/base >10000	39 333 556 1500 current ▲ 17 0 2 2 current 9707	  history1   history1	  history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647	>15 >20 limit/base	39 333 556 1500 current ▲ 17 0 2 current 9707 ▲ 3163	  history1   history1 	   history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500	39 333 556 1500	  history1   history1  history1	   history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >320	39 333 556 1500 current ▲ 17 0 2 current 9707 ▲ 3163	  history1  history1  history1	   history2   history2  history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >320 >80	39 333 556 1500 current ▲ 17 0 2 current 9707 ▲ 3163 ▲ 323 ▲ 93	  history1   history1  	   history2   history2  history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >320 >80 >20	39 333 556 1500 current ▲ 17 0 2 current 9707 ▲ 3163 ▲ 323 ▲ 93 5	  history1   history1  history1	   history2   history2  history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >320 >320 >80 >20 >4	39 333 556 1500 current ▲ 17 0 2 current 9707 ▲ 3163 ▲ 323 ▲ 93 5 0	  history1   history1  history1   	   history2    history2  history2

Report Id: LINORA [WUSCAR] 06029991 (Generated: 12/13/2023 16:01:30) Rev: 1

Contact/Location: THOMAS BIGGIE - LINORA



# **OIL ANALYSIS REPORT**



Viscosity @ 40°C

	000.00	1.00.00				
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.05	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	33.4	32.0		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					no image	no image
-						
Bottom					no image	no image
PrtFilter					no image	no image
GRAPHS						
Ferrous Alloys						
iron			Pa	article Filter (M	agn: 200 x)	
- nickel					0µ	100 200 300
23 23	************	*********************	1/23			
Dec7/23			Dec7/23			
Non-ferrous Meta	ls					
D						
copper management lead						
• • • • • • • • • • • • • • • • • • •						
c7/23			c7/23			
Dec7			Dec7			
Viscosity @ 40°C			(B)	Acid Number		
Abnormal			HO.6			1
Abnormal			ຍັ 0.4	0+		
			6.0.4 400 0.0 group 0.0 group 0.0 group 0.0 group 0.0 group	0		
;L			0.0 deid 1			22
Dec7/23			Dec7/23 Ac	Dec7/23		Dec7/23
_				1		
WearCheck USA - 5	501 Madi	son Ave Ca	rv. NC 2751	3 LINDE AD	VANCED MATERIAL	S TECHNOLOGIES
	Receive		Dec 2023			42 ROUTE 303
	Diagnos	<b>ed</b> : 13	Dec 2023			NGEBURG, NY
10770782	Diagnos		athan Hosto			119 10020

limit/base

NONE

NONE

current

NONE

NONE

history1

history2



NDE ADVANCED MATERIALS TECHNOLOGIES 542 ROUTE 303 ORANGEBURG, NY US 10920 Contact: THOMAS BIGGIE thomas.biggie@linde.com T: 2:2012) F:

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)

Test Package : PLANT (Additional Tests: PrtFilter)

Diagnostician : Jonathan Hester

cSt (40°C)

Unique Number : 10779782

Laboratory

Sample No. Lab Number

Certificate L2367