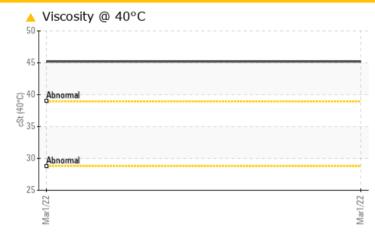


Sample Rating Trend



Machine Id **PUMP 1** Component **Hydraulic System** Fluid **MOBIL DTE ULTRA 32 (--- GAL)** 

# COMPONENT CONDITION SUMMARY



RECOMMENDATION	PROBLEMAT	IC TES	T RESULTS				
Resample at the next service interval to monitor.	Sample Status			ATTENTION	ATTENTION		
•	Visc @ 40°C	cSt	ASTM D445	<b>45.2</b>			

Customer Id: GARGARIN Sample No.: PCA0070726 Lab Number: 05486560 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Component Hydraulic System Fluid MOBIL DTE ULTRA 32 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Machine Id

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0070726		
Sample Date		Client Info		01 Mar 2022		
Machine Age	hrs	Client Info		5973		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	31		
Tin	ppm	ASTM D5185m	>10	0		
Antimony	ppm	ASTM D5185m		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		
	ppm ppm	ASTM D5185m ASTM D5185m		0 <1		
Molybdenum				-		
Molybdenum Manganese	ppm	ASTM D5185m		<1		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		<1 0		
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 0 4		
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 0 4 62		
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 0 4 62 358		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 0 4 62 358 505	  	  
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 0 4 62 358 505 792	   	   
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 0 4 62 358 505 792 current	   	   
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>20	<1 0 4 62 358 505 792 current <1	    history1	    history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20	<1 0 4 62 358 505 792 current <1 0	    history1	    history2 
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	<1 0 4 62 358 505 792 current <1 0 0	    history1  	    history2 
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base >5000	<1 0 4 62 358 505 792 current <1 0 0 0	    history1   history1	    history2   history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m	>20 >20 limit/base >5000	<1 0 4 62 358 505 792 current <1 0 0 0 current 3192	    history1   history1  history1	    history2   history2  history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m	>20 >20 limit/base >5000 >1300	<1 0 4 62 358 505 792 current <1 0 0 0 current 3192 718	    history1   history1	     history2   history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160	<1 0 4 62 358 505 792 current <1 0 0 0 current 3192 718 69	    history1   history1	      history2   history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40 >10	<1 0 4 62 358 505 792 current <1 0 0 0 current 3192 718 69 16	     history1   history1  history1	    history2   history2  history2

ISO 4406 (c) >19/17/14

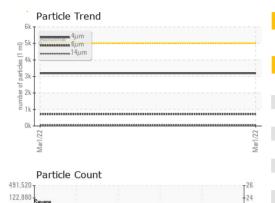
**Oil Cleanliness** 

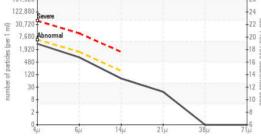
19/17/13

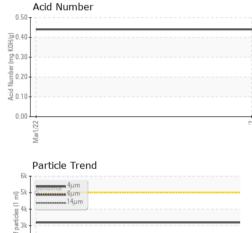


# **OIL ANALYSIS REPORT**

FLUID DEGRADATION method







÷ ie 2k In 1k 0k Mar1/22

· · · · · · · · · · · · · · · · · · ·	cid Number (AN)	mg KOH/g	ASTM D8045		0.44		
	VISUAL		method	limit/base	current	history1	history2
W	hite Metal	scalar	*Visual	NONE	NONE		
Ye	ellow Metal	scalar	*Visual	NONE	NONE		
Pr	recipitate	scalar	*Visual	NONE	NONE		
Sil Mar1/22			*Visual	NONE	NONE		
	ebris		*Visual	NONE	NONE		
	and/Dirt	scalar	*Visual	NONE	NONE		
	opearance	scalar	*Visual	NORML	NORML		
	dor nulsified Water		*Visual	NORML	NORML		
-20 44 Er	ree Water	scalar scalar	*Visual *Visual	>0.1	NEG NEG		
18 1999					NEG		
-16 Clean	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
-12 S Vis	sc @ 40°C	cSt	ASTM D445	4	45.2		
-10 de	SAMPLE IMAG	ES	method	limit/base	current	history1	history2
71µ <sup>6</sup>							
0.							
Co	olor					no image	no image
Bo	ottom					no image	no image
(	GRAPHS						
5	Ferrous Alloys				Particle Count		
<sup>10</sup> T				491,520	I		T <sup>2</sup>
u. 5.	ron chromium nickel			122,880	-		-2
g 3.	IIICKCI			30,720	bevere		-2
0				= 7,680	Abnormal		-2
	Mar1/22			(per 1 ml 250	N		1
				cles (p	1.		+2
40 T	Non-ferrous Metals	5		7,680 7,680 1.920 7,0000 7,0000 7,0000 7,0000 7,00000000			
	copper			120 			-1
30-	**************************************						
30- 톱 20-				= 30			-1
30-				≕ 30 	-		
500 E 20 10 0				8	-		
30 - 톱 20 - 10 -	Mar 1/22			22/1 <sup>12</sup> 0			-1
			*****	8 8 27/1/22 0		14μ 21μ	
30 + E 20 + 10 + 0 -	1/27	*****		8 8 27/1/22 0	μ 6μ	14μ 21μ	-1
30 E 20 10 0 50 45	1/27			8 8 27/1/22 0	μ 6μ	14μ 21μ	-1
30 E 20 10 0 45 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Viscosity @ 40°C			8 8 27/1/22 0	μ 6μ	14μ 21μ	-1
45 45 45 45 45 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 40 40 40 40 40 40 40 40 40 40	Viscosity @ 40°C			00.00 8 22 22 22 00.00 00 00 00 00 00 00 00 00 00 00 00	μ Acid Number	14μ 21μ	-1
45 45 45 45 45 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 30 45 40 40 40 40 40 40 40 40 40 40	Viscosity @ 40°C			00.00 8 22 22 22 00.00 00 00 00 00 00 00 00 00 00 00 00	μ Acid Number	14μ 21μ	
50 50 50 50 50 50 50 50 50 50	Viscosity @ 40°C			8 8 27/1/22 0	μ 6μ	14μ 21μ	
E 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Viscosity @ 40°C	01 Madis	on Ave., Ca	Mar1/22 Mar1/22 00.00 War1/22 00.00 War1/22 00.00 War1/22 00.00 War1/22 00.00 War1/22 War1/22 00.00 War1/22 00.00 War1/22	Acid Number		38µ 71µ
oratory : Wnple No. : Po	Viscosity @ 40°C Abnomal Abnomal VearCheck USA - 50 CA0070726 F	Received	: 08	(0,400 (0,40) (0,400 (0,40)	Acid Number		
ratory : Wole No. : Po Number : 05	Viscosity @ 40°C Abnomal /earCheck USA - 50 CA0070726 F 5486560 E	Received Diagnose	:081 d:101	ry, NC 27513 Mar 2022 Mar 2022	Acid Number		38μ 71μ 38μ 71μ Y SANITATIO GARY,
oratory : W pple No. : Po Number : 95	Viscosity @ 40°C Abnomal /earCheck USA - 50 CA0070726 F 5486560 E	Received	:081 d:101	(0,400 (0,40) (0,400 (0,40)	Acid Number	GARY	

limit/base

current

Contact/Location: Service Manager - GARGARIN

history2

history1