



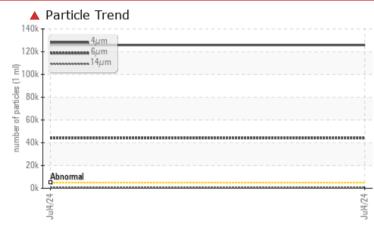
PROBLEM SUMMARY

Machine Id

PRESS #29 (S/N SE2-500-96-54)

Circulating Oil Fluid MOBIL SPARTAN EP 220 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	
Particles >4µm	ASTM D7647	>5000	125836	
Particles >6µm	ASTM D7647	>1300	44022	
Particles >14µm	ASTM D7647	>160	<u> </u>	
Particles >21µm	ASTM D7647	>40	i 134	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	4 24/23/17	

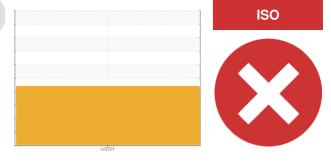
Customer Id: DYNTIL Sample No.: WC0862410 Lab Number: 02646486 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED A	COMMENDED ACTIONS					
Action Resample	Status	Date	Done By ?	Description Resample in 30-45 days to monitor this situation.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

ISO

PRESS #29 (S/N SE2-500-96-54)

Circulating Oil Fluid MOBIL SPARTAN EP 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0862410		
Sample Date		Client Info		04 Jul 2024		
Machine Age	mths	Client Info		708		
Oil Age	mths	Client Info		5		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
-		in a the a d	line it //s s s s		latata mut	la i at a m . O
CONTAMINATION	l	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	9		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	9		
Copper	ppm	ASTM D5185(m)	>20	25		
Tin	ppm	ASTM D5185(m)	>20	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		3		
Calcium	ppm	ASTM D5185(m)		10		
Phosphorus	ppm	ASTM D5185(m)				
Zinc		ASTIVI DJ TOJ(III)		185		
200	ppm	ASTM D5185(m)		185 32		
Sulfur	ppm ppm					
-		ASTM D5185(m)		32		
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	32 3791 <1		
Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	limit/base	32 3791 <1 current		
Sulfur Lithium CONTAMINANTS Silicon	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)		32 3791 <1 current 3	 history1	 history2
Sulfur Lithium CONTAMINANTS	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	>15	32 3791 <1 current	 history1	 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	>15	32 3791 <1 <u>current</u> 3 <1	 history1 	 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>15 >20	32 3791 <1 current 3 <1 1 1 current	 history1 	 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>15 >20 limit/base >5000	32 3791 <1 current 3 <1 1 1 current ▲ 125836	 history1 history1	 history2 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300	32 3791 <1 Current 3 <1 1 Current 125836 ▲ 125836	 history1 history1 	 history2 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160	32 3791 <1 Current 3 <1 1 Current ▲ 125836 ▲ 44022 ▲ 685	 history1 history1 	 history2 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40	32 3791 <1 current 3 <1 1 current ▲ 125836 ▲ 44022 ▲ 685 ▲ 134	 history1 history1 	 history2 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	32 3791 <1 current 3 <1 1 current ▲ 125836 ▲ 44022 ▲ 685 ▲ 134 11	 history1 history1 history1	 history2 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	32 3791 <1 current 3 <1 1 current ▲ 125836 ▲ 44022 ▲ 685 ▲ 134	 history1 history1 	 history2 history2 history2



140k 120k 〒1200 〒1000 of narticles 80 60

har 40k

140 120k

ar of particles (1 m 80k 90k

(B/HOX Ê0.30

e 0.20 Pio 0.10 0.00

() 20 20 Base

హ్టే 210 200 Abnorm

OIL ANALYSIS REPORT

Particle Trend	FLUID DEC	GRADATION	method	limit/base	current
0k - 4μm 	Acid Number	(AN) mg KOH/g	ASTM D974*		0.44
0k	VISUAL		method	limit/base	current
0k -	White Metal	scalar	Visual*	NONE	NONE
0k -	Yellow Metal	scalar	Visual*	NONE	NONE
Ok Abnormal	Precipitate	scalar	Visual*	NONE	NONE
Jul4/24	52 Silt Debris	scalar	Visual*	NONE	NONE
	Debris	scalar	Visual*	NONE	NONE
Particle Trend	Sand/Dirt	scalar	Visual*	NONE	VLITE
0k T	Appearance	scalar	Visual*	NORML	NORML
0k + 4μm	Odor		Visual*	NORML	NORML
0k +14μm	Emulsified W		Visual*		NEG
0k	Free Water	scalar	Visual*		NEG
0k +	FLUID PRO		method	limit/base	current
OkAbnormal	Visc @ 40°C	cSt	ASTM D7279(m)	220	190
0k L + 52/+10 r	SAMPLE I	MAGES	method	limit/base	current
40	Bottom				
	GRAPHS			_	
Jul4/24	Ferrous Allo	oys		491,520	Particle Coun
Viscosity @ 40°C	E 5-	um		122,880	Severe
Abnormal 40 -				30,720	··· \
30	Jul4/24			7,680 (m 1,724 1,920	Abnormal
20 - Base				Jul4/24- 1.900 (per 1 ml)	
10	Non-ferrou	s Metals		apitie 480	
90	30 copper				
80	20 - Elead			120- 120- 120- 30-	
Jul4,24					
	0			8.	
	Jul4/24			Jul4/24	
		4000		0. 4	и 6µ
	Viscosity @	40°C		@n.co	Acid Number
	Abnormal			(B) 0.60 (B) 0.40 (B) 0.40 (B) 0.40	
	240 Base Base 3 200 Abnormal		*****	j≝ 0.40• ja	
	200 Abnormal			g 0.20-	

180

Laboratory

Sample No.

Lab Number : 02646486

Unique Number : 5812038

14

: WC0862410

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test Package : IND 2 (Additional Tests: PrtCount, TAN Man)

DYNAMIC FLUID PRODUCTS LTD. **40 CEDAR STREET** TILLSONBURG, ON CA N4G 4H5 Contact: Sean Barrett sbarrett@dynamicfluid.com T: (519)688-0337 F: (519)688-0893

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Report Id: DYNTIL [WCAMIS] 02646486 (Generated: 07/09/2024 14:02:09) Rev: 1

CALA

ISO 17025:2017 Accredited Laboratory

Contact/Location: Sean Barrett - DYNTIL

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38µ

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Jul4/24

: 08 Jul 2024

: 09 Jul 2024

: 09 Jul 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Diagnosed

Tested

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