

OIL ANALYSIS REPORT

Area **315 Nantucket** Machine Id **F3** Component Hydraulic System Fluid {not provided} (--- LTR)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 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		WC0921771		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	0		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	12		
Tin	ppm	ASTM D5185(m)	>20	0		
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)		0		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		32		
Phosphorus	ppm	ASTM D5185(m)		217		
Zinc	ppm	ASTM D5185(m)		275		
Sulfur	ppm	ASTM D5185(m)		5223		
Lithium	mag	ASTM D5185(m)				
	1-1-			<1		
CONTAMINANTS	P P	method	limit/base	<1 current	 history1	history2
CONTAMINANTS Silicon	ppm	Method ASTM D5185(m)	limit/base	<1 current 0	history1	history2
CONTAMINANTS Silicon Sodium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base >15	<1 current 0 0	 history1 	history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >15 >20	<1 current 0 0 0	 history1 	history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ESS	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	limit/base >15 >20 limit/base	<1 current 0 0 0 current	history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ESS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7647	limit/base >15 >20 limit/base >5000	<1 current 0 0 0 current 13241	history1 history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ESS	Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300	<1 current 0 0 0 current 13241 1935	 history1 history1 	history2 history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ESS	Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160	<1 current 0 0 0 current ▲ 13241 ● 1935 111	 history1 history1 	history2 history2 history2 history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ESS	MethodASTM D5185(m)ASTM D5185(m)ASTM D5185(m)MethodASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 current 0 0 0 current 13241 1935 111 30	 history1 history1 	history2 history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ESS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	<1 current 0 0 0 current ▲ 13241 ● 1935 111 30 3	 history1 history1 	history2 history2 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ESS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >10 >10 >3	<1 current 0 0 0 current ▲ 13241 ● 1935 111 30 3 1	history1 history1 history1	history2 history2 history2

Contact/Location: Joseph Kovacs - MARSCA



OIL ANALYSIS REPORT

14k -	Particle Trend			FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
12k	4μm 6μm 14μm			Acid Number (AN)	mg KOH/g	ASTM D974*		0.29		
10 TUK - Sajoji 8k -				VISUAL		method	limit/base	current	history1	history2
jo ek-	Abnormal			White Metal	scalar	Visual*	NONE	NONE		
quine 4k •				Yellow Metal	scalar	Visual*	NONE	NONE		
- 2k -				Precipitate	scalar	Visual*	NONE	NONE		
0.	9/24		9/24 -	Silt	scalar	Visual*	NONE	NONE		
	Marl		Marl	Debris	scalar	Visual*	NONE	NONE		
	Particle Trend			Sand/Dirt	scalar	Visual*	NONE	NONE		
14k				Appearance	scalar	Visual*	NORML	NORML		
€ ^{12k}	6μm			Odor	scalar	Visual*		NORML		
1) TUK -				Erree Water	scalar	Visual*	>0.05	NEG		
fue for the formation of the formation o	Abnormal				Scalai	visuai		NEG		
aquini 4k •				FLUID PROPERT	TIES	method	limit/base	current	history1	history2
2k - 0k				Visc @ 40°C	cSt	ASTM D7279(m)		45.0		
	1ar19/24		far19/24	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
0.30 9 0.24	Zid Number		2	Color					no image	no image
- 0.06 401 - 0.00 401 - 0.00 401 - 0.00				Bottom					no image	no image
0.00				GRAPHS						
0.00	19/24 -		. teros	Ferrous Alloys				Particle Count		
	Mar		1 A	10 iron 1			491,520	I		T ²⁶
	Viscosity @ 40°	°C		E. 5.			122,880	Severe		-24
52	Abnormal						30,720			-22
48							± ≘ 7,680	Abritanal		-20 😨
÷ 46				ar19/2			1,1 ar 1,920			18 18
\$) tg 44-				≥ Non forrous Moto	c		480			1999 (
42 -	Abnormal						of par		<	Jeanlin
40-	-			_ 10 lead			a 120	1		14 less Co
	19/24		A CL D I	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5			= 30	1		-12 ਨੂੰ
	Mar		A A				8	+		10
				19/24			9/24	-		
				Mar			N A	5u	14	38
				Viscosity @ 40°C			-	Acid Number	i ija	30µ 11µ
				_50 Abnormal			0.30 Hox	[
				0 0+ 45 -			ළී 0.20 ක	+		
				40 - Abnormal			fundaria (1.10			
				35			00.0 gci	1- 		
				lar 1 9/2			lar19/2	lar 1 9/2		lar19/2
				2			2	~		2
回湖		CALA	Laboratory	: WearCheck - C8-117	5 Appleb	/ Line, Burlin	gton, ON L7L	5H9 MARKD	OM PLASTICS F	PRODUCTS LTD
R.		Acception 10, 100019	Sample No. Lab Number	: 02623401	Rece Teste	ivea : 20 d : 21	Mar 2024		1220 BIRI 1	
÷.		Accredited	Unique Number	: 5748520	Diagr	nosed : 21	Mar 2024 - W	es Davis		CA M1P 2C6
₩P.			Test Package	: IND 2					Contact:	Joseph Kovacs
		To discuss this Test denoted	s sample report, (*) outside scope	contact Customer Serv of accreditation, (m) m	ethod mo	odified, (e) te	i. sted at exteri	nal lab.	joseph@ 	(416)752-4290
		validity of resi	uns and interpreta	auon are based on the	sample a	na informatio	on as supplied	<i>.</i> .	F:	(416)/51-6638

Contact/Location: Joseph Kovacs - MARSCA