

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area **Plant US1 Greenville BD-7 - Hydraulic**

Hydraulic System Fluid SHELL TELLUS S2 M 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

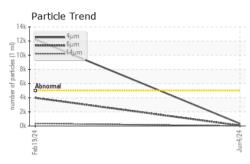
Fluid Condition

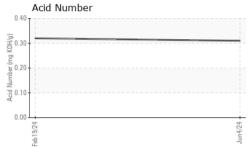
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

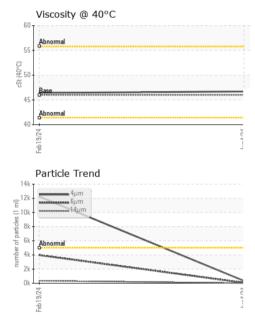
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TLC0001332	TLC0001548	
Sample Date		Client Info		04 Jun 2024	19 Feb 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	2	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>20	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>20	0	<1	
Lead	ppm	ASTM D5185m	>20	<1	1	
Copper	ppm	ASTM D5185m		5	7	
Tin	ppm	ASTM D5185m	>20	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	5	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		28	27	
Calcium	ppm	ASTM D5185m		33	35	
Phosphorus	ppm	ASTM D5185m		286	234	
Zinc	ppm	ASTM D5185m		347	314	
Sulfur	ppm	ASTM D5185m		1357	1290	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	
Sodium	ppm	ASTM D5185m		-	0	
Potassium	ppm	ASTM D5185m	>20	<1	1	
Water	%	ASTM D6304		NEG	NEG	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	332	12246	
Particles >6µm		ASTM D7647	>1300	65	A 3976	
Particles >14µm		ASTM D7647	>160	9	A 352	
Particles >21µm		ASTM D7647	>40	3	<u> </u>	
Particles >38µm		ASTM D7647	>10	0	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	▲ 21/19/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.32	



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White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D445	46.0	46.7	46.4	
SAMPLE IMAGES	5	method	limit/base	current	history1	history
						, , , , , , , , , , , , , , , , , , , ,
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys				Particle Cour	st.	
T T T T T T T T T T T T T T T T T T T			491,5		ic.	
iron chromium			100	190		
- nickel			122,8	Severe		
-			30,7	<u> </u>		
5				80 Abnormal		
Feb 1 9/2 4			Jun4/24 [per 1 ml]	120-	N .	
—			L cles (i			
Non-ferrous Metal	s		bart	80	N	
copper				20-		
tin tin						
				30-		
				8 -		-
			***	2		
Feb 19/24			Jun4/24	2-	/	
			Ļ	0.4µ 6µ	14µ 21µ	38µ 71
Viscosity @ 40°C				Acid Number		
Abnormal			(B/)	.40 T		
- 6			1 KO	30 -		
			ڭ ت	20		
Base			Mumb V	10		
Abnormal			Acid Number (mg KOH/g)	00		
3/24						
Feb 19/24			Jun4/24	Feb19/24		
/earCheck USA - 50 ⁻	1 Madieo	n Ave Carv	NC 27512	MICHEI	IN TIRE-GREENVILI	

Unique Number Test Package : PLANT

Laboratory Sample No. Lab Number

- 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)

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Certificate L2367

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