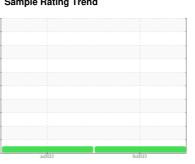


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



AF12-360-1150-1210 SOUTH LUKKI EAST LIFTING BAR HYDRAULIC UNIT

Component

Hydraulic System

MOBIL DTE 10 EXCEL 46 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

Fluid Condition

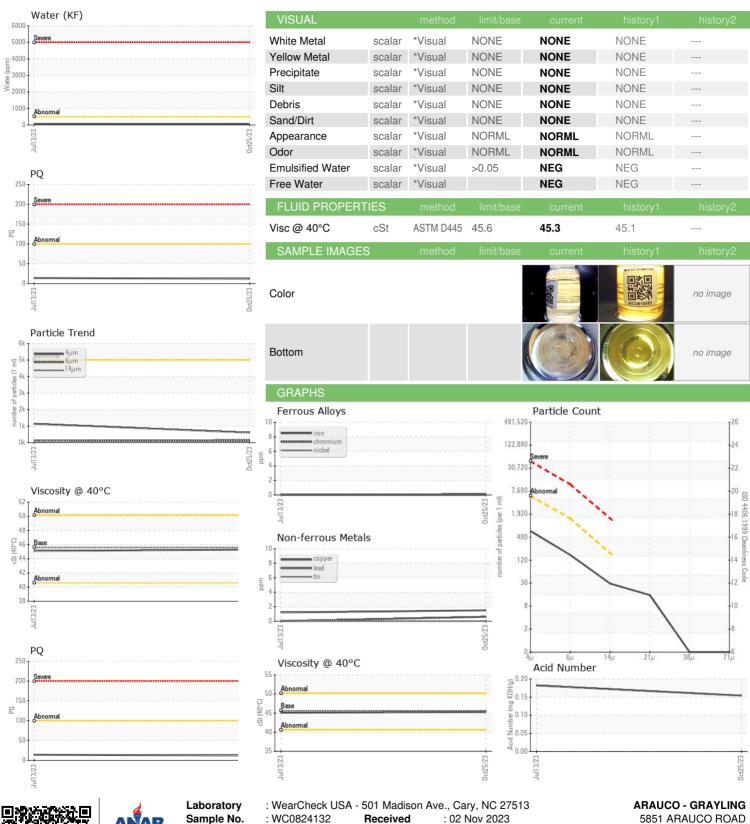
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Jui2023	0et/023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824132	WC0818962	
Sample Date		Client Info		25 Oct 2023	13 Jul 2023	
Machine Age	mths	Client Info		60	60	
Oil Age	mths	Client Info		60	6	
Oil Changed	111010	Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	14	
Iron	ppm	ASTM D5185m	>20	0	0	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m	720	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	0	
Lead	ppm	ASTM D5185m	>20	<1	0	
Copper	ppm	ASTM D5185m	>20	2	1	
Tin	ppm	ASTM D5185m		0	0	
Vanadium		ASTM D5185m	>20	0	<1	
	ppm			0	0	
Cadmium	ppm	ASTM D5185m		U	U	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		<1	1	
Calcium	ppm	ASTM D5185m		110	105	
Phosphorus	ppm	ASTM D5185m		411	453	
Zinc	ppm	ASTM D5185m		33	29	
Sulfur	ppm	ASTM D5185m		1527	1581	
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	1	
Water	%	ASTM D6304	>0.05	0.004	0.003	
ppm Water	ppm	ASTM D6304	>500	44.5	38.9	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	604	1144	
Particles >6μm		ASTM D7647	>1300	144	127	
Particles >14μm		ASTM D7647	>160	26	16	
Particles >21μm		ASTM D7647	>40	13	7	
Particles >38μm		ASTM D7647	>10	0	1	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/12	17/14/11	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2

0.154



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

: WC0824132 : 05996700 : 10725060 Test Package : PLANT

Received Diagnosed

: 04 Nov 2023 : Don Baldridge Diagnostician

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) 5851 ARAUCO ROAD GRAYLING, MI US 49738

Contact: JOSEPH GREEN joseph.green@arauco.com

T: F: