

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

AF12-360-1150-1110 SOUTH LUKKI WEST LIFTING BAR HYDRAULIC UNIT

Hydraulic System

MOBIL DTE 10 EXCEL 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.

		<u></u>	Jul2023	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0848188	WC0818961	
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		Client Info		N/A	Changed	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9	11	
Iron	ppm	ASTM D5185m	>20	0	0	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	ء <1	0	
Lead	ppm	ASTM D5185m	>20	2	1	
Copper	ppm	ASTM D5185m	>20	2 <1	<1	
Tin		ASTM D5185m		< 1	0	
Tin Vanadium	ppm		>20	0	<1	
	ppm	ASTM D5185m		-		
Cadmium	ppm	ASTM D5185m		0	0	
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		111	108	
Phosphorus	ppm	ASTM D5185m		419	467	
Zinc	ppm	ASTM D5185m		30	26	
Sulfur	ppm	ASTM D5185m		2031	2021	
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	
Sodium	ppm	ASTM D5185m	210	0	1	
Potassium		ASTM D5185m	>20	2	1	
Water	ppm %	ASTM D5185III ASTM D6304		2 0.004	0.005	
ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.05 >500	47.7	53.2	
FLUID CLEANLIN		method				history?
			limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	624	2485	
Particles >6µm		ASTM D7647	>1300	244	▲ 1335	
Particles >14µm		ASTM D7647	>160	53	▲ 385	
Particles >21µm		ASTM D7647		21	<u>▲</u> 174	
Particles >38µm		ASTM D7647	>10	2	▲ 16	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13	▲ 18/18/16	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.047	0.189	
:08:20) Rev: 1						

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