

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 050-06 WC-09 (S/N 7142-0314) Component

Hydraulic System

PERFORMANCE PLUS TURBINE R&O 46 (53 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

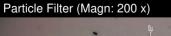
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

Fluid Condition

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





55 GAL)			Mar2023	Aug2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0001964	PH0000457	
Sample Date		Client Info		04 Aug 2023	15 Mar 2023	
Machine Age	hrs	Client Info		216	10746	
Oil Age	hrs	Client Info		216	10746	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	1	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>20	<1	<1	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	<1	2	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		7	0	
Calcium	ppm	ASTM D5185m		31	19	
Phosphorus	ppm	ASTM D5185m		307	309	
Zinc	ppm	ASTM D5185m		375	356	
Sulfur	ppm	ASTM D5185m		751	843	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2108	A 3955	
Particles >6µm		ASTM D7647	>640	585	1 170	
Particles >14µm		ASTM D7647	>160	41	41	
Particles >21µm		ASTM D7647	>40	8	7	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/14	18/16/13	▲ 19/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.38	

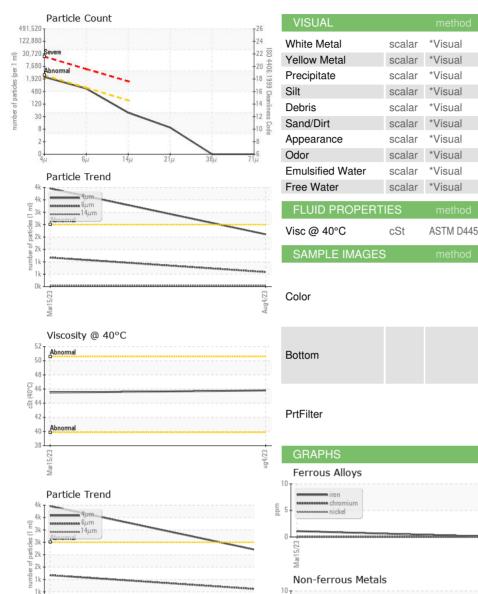


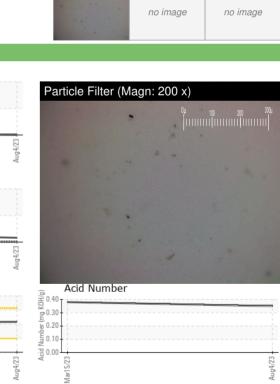




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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

45.8

NONE

NONE

NONE

NONE

NONE

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45.5

no image

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NONE

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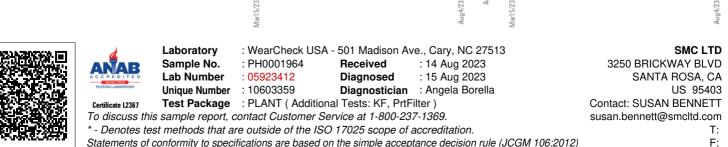
NONE

NONE

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>0.05



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Viscosity @ 40°C

55 () 0.04 45

> 40 35

Abnorma

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