

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id MCLAUGHLIN TANK 2 Component

Quench Oil

Fluid TUXTON TECH QUENCH 5209 (4000 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the quenching fluid.

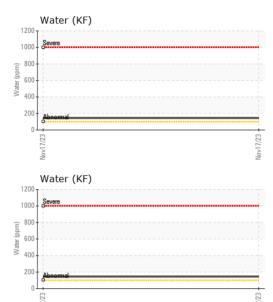
Fluid Condition

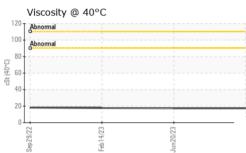
The condition of the quenching fluid is acceptable for the time in service.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0788788	WC0788797	WC0661356
Sample Date		Client Info		17 Nov 2023	20 Jun 2023	14 Feb 2023
Machine Age	hrs	Client Info		0	14000	0
Oil Age	hrs	Client Info		0	0	11000
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		62	52	34
Chromium	ppm	ASTM D5185m		<1	0	<1
Nickel	ppm	ASTM D5185m		3	1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	1	<1
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 6	history1 6	history2 4
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	6	6 0 <1	4
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	6 0	6 0	4
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 0	6 0 <1	4 0 <1
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 0 4 2 15	6 0 <1 3	4 0 <1 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 0 4 2	6 0 <1 3 4	4 0 <1 2 2 7 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 0 4 2 15	6 0 <1 3 4 11	4 0 <1 2 2 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 4 2 15 3	6 0 <1 3 4 11 2	4 0 <1 2 2 7 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 0 4 2 15 3 14	6 0 <1 3 4 11 2 20	4 0 <1 2 2 7 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 0 4 2 15 3 14 290	6 0 <1 3 4 11 2 20 330 history1 <1	4 0 <1 2 2 7 <1 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 0 4 2 15 3 14 290 current	6 0 <1 3 4 11 2 20 330 history1	4 0 <1 2 2 7 <1 0 0 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	6 0 0 4 2 15 3 15 3 14 290 current <1	6 0 <1 3 4 11 2 20 330 history1 <1	4 0 <1 2 2 7 <1 0 0 0 <i>history2</i> 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base	6 0 0 4 2 15 3 14 290 current <1 15	6 0 <1 3 4 11 2 20 330 history1 <1 8	4 0 <1 2 2 7 <1 0 0 0 <i>history2</i> 2 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	6 0 4 2 15 3 14 290 current <1 15 12	6 0 <1 3 4 11 2 20 330 history1 <1 8 10	4 0 <1 2 2 7 <1 0 0 0 <i>history2</i> 2 7 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	6 0 0 4 2 15 3 14 290 current <1 15 15 12 0.014	6 0 <1 3 4 11 2 20 330 history1 <1 8 10 	4 0 <1 2 2 7 <1 0 0 0 history2 2 7 4



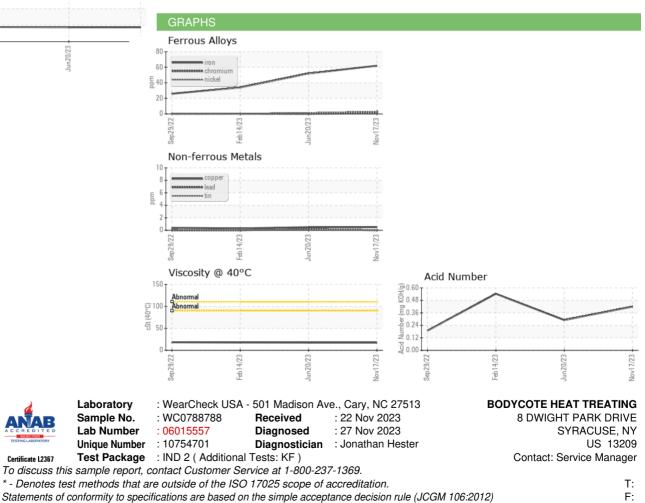
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		17.31	17.3	17.66
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						Lane a
					0	

Bottom



Contact/Location: Service Manager - BODSYR