

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **MANNS 1100 X6**

Port Main Engine Fluid {not provided} (23 GAL)

DIAGNOSIS

Recommendation

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

🔺 Wear

The copper level is abnormal. All other 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.

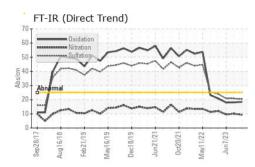
Fluid Condition

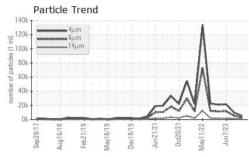
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

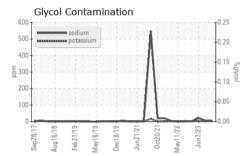
	p2017 Aug201	8 Feb2019 May2019 Dec	2019 Jun2021 Oct2021 May2022	Jun2023	
IATION	method	limit/base	current	history1	history2
	Client Info		KL0013498	KL0013501	KLM2316481
	Client Info		14 May 2024	01 May 2024	07 Jun 2023
hrs	Client Info		2285	1708	373
hrs					373
	Client Info		-	Ũ	Changed
			ABNORMAL	ABNORMAL	ABNORMAL
1	method	limit/base	current	history1	history2
	WC Method	>4.0	<1.0	<1.0	<1.0
	WC Method	>0.1	NEG	NEG	NEG
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>75	7	9	18
ppm	ASTM D5185m	>8	1	1	1
ppm	ASTM D5185m	>2	<1	<1	<1
ppm	ASTM D5185m	>3	<1	<1	0
ppm				<1	0
			_		1
					<1
			-		87 <1
		>14			0
					0
ppm		11 11 11			-
		limit/base			history2
					20
			-		0
					53 1
					881
					728
ppm	ASTM D5185m		1025	974	827
ppm	ASTM D5185m		1244	1198	1037
ppm	ASTM D5185m		3483	3613	3184
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>20	4	4	4
ppm	ASTM D5185m	>75	4	5	22
ppm	ASTM D5185m	>20	2	2	4
%	*ASTM D2982		NEG	NEG	NEG
	method	limit/base	current	history1	history2
%	*ASTM D7844		0.2	0.3	0.3
/0					
Abs/cm	*ASTM D7624	>20	9.3	10.1	9.5
	hrs hrs hrs ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Client InfoClient InfoNrsClient InfohrsClient InfoClient InfoClient InfoClient InfoVCVC MethodWC MethodWC MethodWC MethodPpmASTM D5185mppmASTM D5185m </td <td>Client InfoClient InfoInrsClient InfoInrsClient InfoClient InfoImit/baseClient InfoImit/baseWC Method>4.0WC Method>4.0WC Method>0.1WC Method>1MathematicationSTM D5185mPpmASTM D5185mASTM D5185m>2ppmASTM D5185mPpmASTM D5185m<td>Client InfoKL0013498Client Info14 May 2024hrsClient Info2285hrsClient Info580Client InfoChangedManagedMatherMather100ABNORMALWC Method>4.0<1.0</td>WC Method>0.1NEGWC Method>0.1NEGppmASTM D5185m>7ppmASTM D5185m>2<1</td> ppmASTM D5185m>2<1	Client InfoClient InfoInrsClient InfoInrsClient InfoClient InfoImit/baseClient InfoImit/baseWC Method>4.0WC Method>4.0WC Method>0.1WC Method>1MathematicationSTM D5185mPpmASTM D5185mASTM D5185m>2ppmASTM D5185mPpmASTM D5185m <td>Client InfoKL0013498Client Info14 May 2024hrsClient Info2285hrsClient Info580Client InfoChangedManagedMatherMather100ABNORMALWC Method>4.0<1.0</td> WC Method>0.1NEGWC Method>0.1NEGppmASTM D5185m>7ppmASTM D5185m>2<1	Client InfoKL0013498Client Info14 May 2024hrsClient Info2285hrsClient Info580Client InfoChangedManagedMatherMather100ABNORMALWC Method>4.0<1.0	Client InfoKL0013498KL0013019Client Info14 May 202401 May 2024hrsClient Info22851708hrsClient Info2285500Client InfoChangedChangedClient InfoChangedABNORMALMethodlimil/basecurrenthistory1WC Method>0.1NEGNEGmethodimil/basecurrenthistory1WC Method>0.1NEGNEGmethodimil/basecurrenthistory1ppmASTM D5185m>79ppmASTM D5185m>2<1

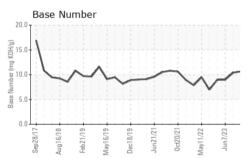


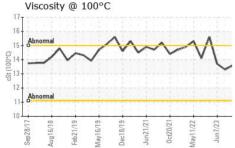
OIL ANALYSIS REPORT







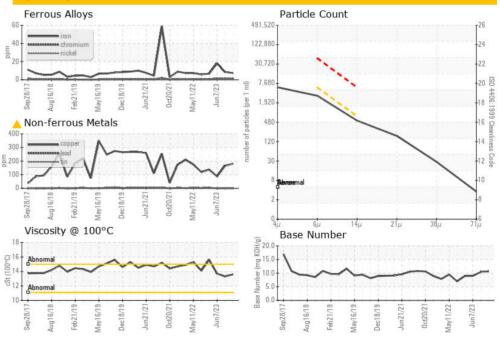




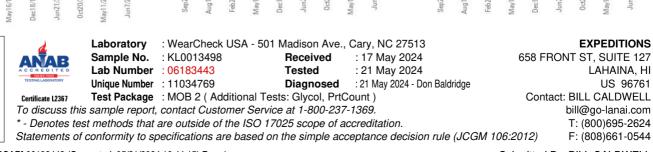
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5089	9944	21445
Particles >6µm		ASTM D7647	>5000	2772	5417	1 1682
Particles >14µm		ASTM D7647	>640	472	922	1 988
Particles >21µm		ASTM D7647	>160	159	9311	6 70
Particles >38µm		ASTM D7647	>40	25	48	1 03
Particles >71µm		ASTM D7647	>10	3	5	11
Oil Cleanliness		ISO 4406 (c)	>19/16	19/16	20/17	1 /18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.1	18.0
Base Number (BN)	mg KOH/g	ASTM D2896		10.66	10.39	8.98
()	0 0					
VISUAL	0 0	method	limit/base	current	history1	history2
	scalar	method *Visual	limit/base	current NONE	history1 NONE	history2 NONE
VISUAL	scalar scalar					
VISUAL White Metal		*Visual	NONE	NONE	NONE	NONE
VISUAL White Metal Yellow Metal	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	NONE
VISUAL White Metal Yellow Metal Precipitate	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORE NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML











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Submitted By: BILL CALDWELL

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