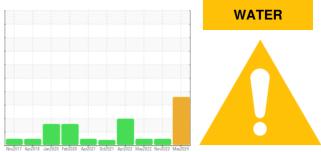


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MANNS X6

Component Port Gearbox Fluid CHEVRON DELO 100 SAE 40 (4 QTS)

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

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

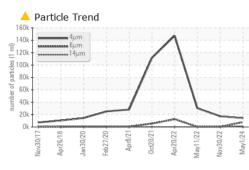
Fluid Condition

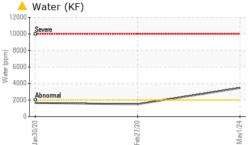
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

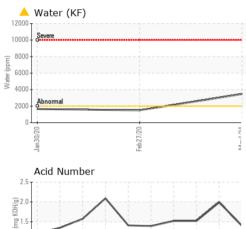
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013500	KL0008974	KL0008936
Sample Date		Client Info		01 May 2024	30 Nov 2022	11 May 2022
Machine Age	hrs	Client Info		1802	12756	11532
Oil Age	hrs	Client Info		1000	1370	146
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	8	14	8
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	3	1
Lead	ppm	ASTM D5185m	>50	<1	7	5
Copper	ppm	ASTM D5185m		3	166	90
Tin	ppm	ASTM D5185m	>10	1	7	5
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		59	148	143
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	49	48
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		789	816	895
Calcium	ppm	ASTM D5185m		1432	1030	987
Phosphorus	ppm	ASTM D5185m	980	806	834	786
Zinc	ppm	ASTM D5185m	1080	910	901	883
Sulfur	ppm	ASTM D5185m		3482	3407	2650
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	5	3
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	5	0	<1
Water	%	ASTM D6304	>0.2	A 0.346		
ppm Water	ppm	ASTM D6304	>2000	A 3460		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14198	17295	30278
Particles >6µm		ASTM D7647	>5000	<u> </u>	320	204
Particles >14µm		ASTM D7647	>640	<u> </u>	8	5
Particles >21µm		ASTM D7647	>160	<u> </u>	2	1
Particles >38µm		ASTM D7647	>40	<u> </u>	0	0
Particles >71µm		ASTM D7647	>10	7	0	0
Oil Cleanliness		ISO 4406 (c)	>19/16	A 20/18	15/10	15/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.40	1.99	1.52

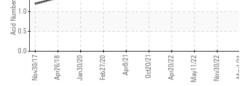


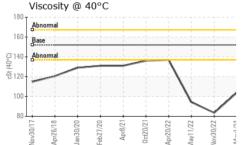
OIL ANALYSIS REPORT

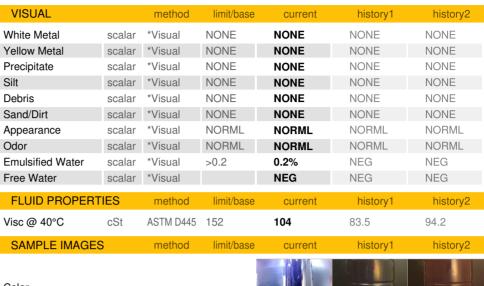




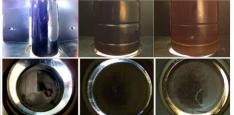




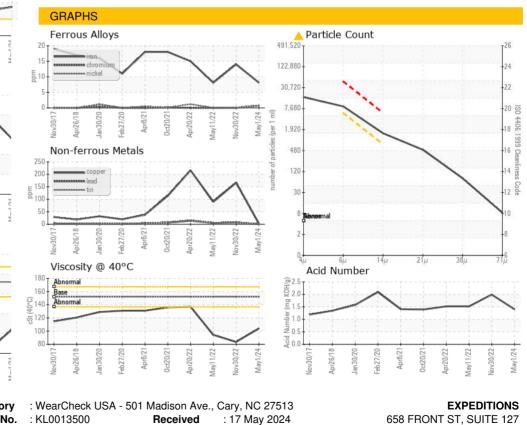




Color



Bottom



: 29 May 2024

: 29 May 2024 - Don Baldridge



Laboratory Sample No. Lab Number Unique Number : 11034651 Test Package : MOB 2 (Additional Tests: KF, PrtCount) Certificate 12367

To discuss this sample report, contact Customer Service at 1-800-237-1369.

:06183325

* - 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)

Tested

Diagnosed

Submitted By: BILL CALDWELL

Contact: BILL CALDWELL

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