

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id Component **Hydraulic System** {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. 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.

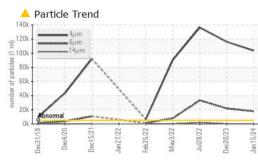
Fluid Condition

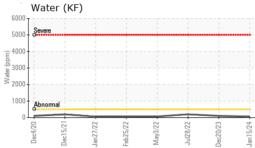
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

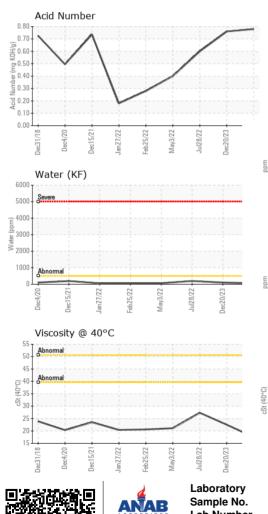
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06062684	WC06043240	WC05605118
Sample Date		Client Info		15 Jan 2024	20 Dec 2023	28 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	3	3
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		7	11	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	3	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m		1	3	4
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	1	1
Barium	ppm	ASTM D5185m		0	0	29
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		9	19	37
Phosphorus	ppm	ASTM D5185m		334	337	195
Zinc	ppm	ASTM D5185m		0	0	7
Sulfur	ppm	ASTM D5185m		4352	4595	3944
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	0	4
Potassium	ppm	ASTM D5185m	>20	1	3	5
Water	%	ASTM D6304	>0.05	0.005	0.010	0.019
ppm Water	ppm	ASTM D6304	>500	59	102	193.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 103710	▲ 116082	▲ 136222
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	▲ 33392
Particles >14µm		ASTM D7647	>160	<u> </u>	1 67	<u> </u>
Particles >21µm		ASTM D7647	>40	<u> </u>	16	<u> </u>
Particles >38µm		ASTM D7647	>10	3	0	A 30
		ASTM D7647	>3	0	0	2
Particles >71µm						
Particles >71µm Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u> </u>	<u> </u>
		ISO 4406 (c) method	>19/17/14 limit/base	24/21/15 current	24/22/15 history1	▲ 24/22/18 history2



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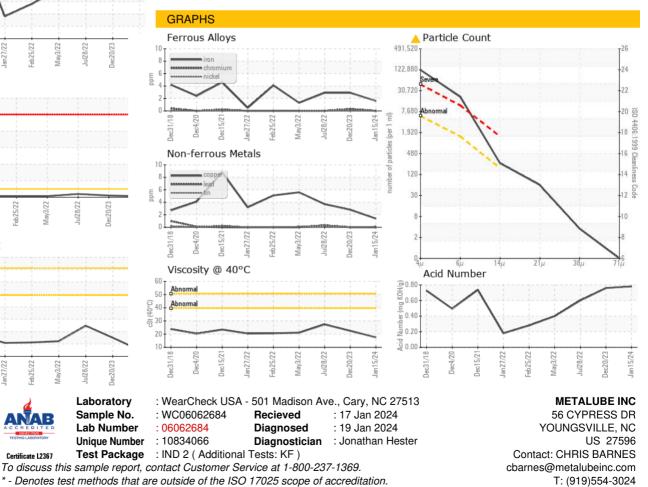






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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		17.5	22.5	27.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

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