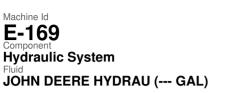


# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO



#### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The 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

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

#### Fluid Condition

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

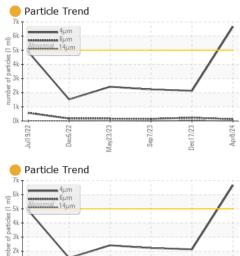
SAMPLE INFORM		mothed	lippit/boog	ourreat	historyd	history
	ATION	method	limit/base		history1	history2
Sample Number		Client Info		WC0828446	WC0878675	WC0828464
Sample Date		Client Info		08 Apr 2024	17 Dec 2023	07 Sep 2023
Machine Age	hrs	Client Info		3367	2795	2226
Oil Age	hrs	Client Info		3367	2795	2226
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		<1	2	<1
Tin	ppm		>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m	87	32	40	0
Phosphorus	ppm	ASTM D5185m	727	521	488	519
Zinc	ppm	ASTM D5185m	900	30	19	0
Sulfur		ASTM D5185m	1500	192	122	50
	ppm			192		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	1	1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6654	2135	2228
Particles >6µm		ASTM D7647	>1300	126	233	150
Particles >14µm		ASTM D7647	>160	8	28	6
Particles >21µm		ASTM D7647	>40	1	9	2
Particles >38μm		ASTM D7647	>10	0	0	0
1		ASTM D7647		0	0	0
Particles >71µm						
Particles >71µm Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>e</b> 20/14/10	18/15/12	18/14/10
	TION	ISO 4406 (c) method	>19/17/14 limit/base	-	18/15/12 history1	18/14/10 history2
Oil Cleanliness	TION mg KOH/g	( )		-		

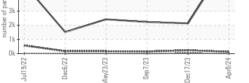
Report Id: DUKRAL [WUSCAR] 06142983 (Generated: 04/11/2024 21:30:18) Rev: 1

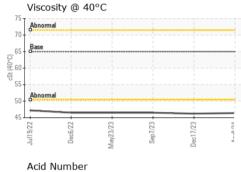
Contact/Location: NICK DIXON - DUKRAL Page 1 of 2

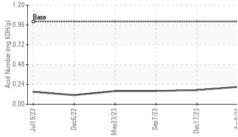


# **OIL ANALYSIS REPORT**



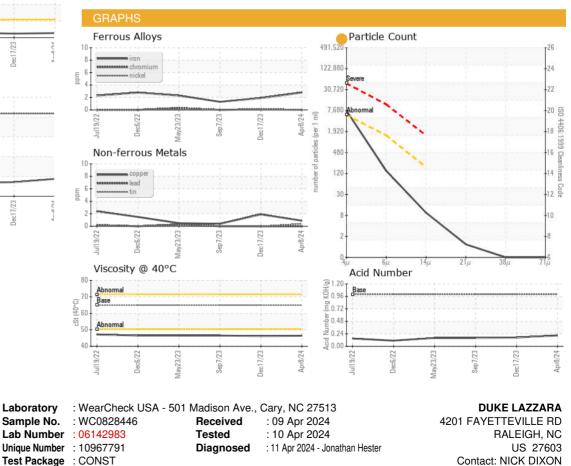






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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	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	65	46.4	46.2	46.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						. 🦉 .





NICK.DIXON@DUKELAZZAM.COM \* - 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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Certificate 12367

Contact/Location: NICK DIXON - DUKRAL

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