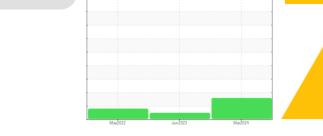


Component Hydraulic System

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend



limit/base

current

ISO

history2

history1

DIAGNOSIS

Machine Id

A Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

AW HYDRAULIC OIL ISO 46 (--- GAL)

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

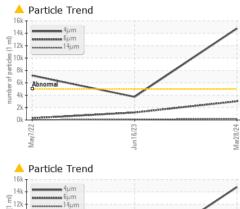
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923088	WC0810567	WC0671365
Sample Date		Client Info		28 Mar 2024	16 Jun 2023	07 May 2022
Machine Age	hrs	Client Info		3284	2510	980
Oil Age	hrs	Client Info		0	0	980
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
CONTAMINATION		method	limit/base	current	history1	history2
Water	v	WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<u>⊳20</u>	2	<1	<1
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m	210	<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm		>10	1	0	<1
Copper	ppm	ASTM D5185m	>75	3	1	1
Tin	ppm		>10	1	0	0
Vanadium	ppm	ASTM D5185m	210	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	pp	method	limit/base	current	history1	history2
						1
Boron	ppm	ASTM D5185m	5 5	1	<1 5	0
Barium	ppm	ASTM D5185m		0	5	0
Molybdenum	ppm	ASTM D5185m ASTM D5185m	5	2 <1	<1	0
Manganese Magnesium	ppm	ASTM D5185m	25	8	14	0
Calcium	ppm	ASTM D5185m	200	o 252	289	39
	ppm	ASTM D5185m	300	398	434	289
Phosphorus Zinc	ppm		370	463	537	320
Sulfur	ppm	ASTM D5185m		463 1334	1554	892
	ppm	ASTM D5185m	2500	1334		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>20	6	<1	<1
Sodium	ppm ppm	ASTM D5185m		6 <1		<1 <1
Sodium				6	<1	
Sodium	ppm ppm	ASTM D5185m		6 <1 2	<1 0	<1
Sodium Potassium FLUID CLEANLIN	ppm ppm	ASTM D5185m ASTM D5185m	>20	6 <1 2	<1 0 0	<1 0
Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base >5000	6 <1 2 current	<1 0 0 history1	<1 0 history2
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647	>20 limit/base >5000	6 <1 2 <u>current</u> ▲ 14776	<1 0 0 <u>history1</u> 3734	<1 0 history2 7170
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647	>20 limit/base >5000 >1300 >160	6 <1 2 <u>current</u> ▲ 14776 ▲ 3020	<1 0 0 <u>history1</u> 3734 1205	<1 0 history2 7170 294
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >5000 >1300 >160	6 <1 2 <u>current</u> ▲ 14776 ▲ 3020 ● 212	<1 0 0 history1 3734 1205 94	<1 0 history2 7170 294 29
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >5000 >1300 >160 >40 >10	6 <1 2 current ▲ 14776 ▲ 3020 ● 212 35	<1 0 0 history1 3734 1205 94 23	<1 0 history2 7170 294 29 6
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >5000 >1300 >160 >40 >10	6 <1 2 current ▲ 14776 ▲ 3020 ● 212 35 1	<1 0 0 history1 3734 1205 94 23 0	<1 0 history2 7170 294 29 6 0
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADA	ppm ESS	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >5000 >1300 >160 >40 >10 >3	6 <1 2 current ▲ 14776 ▲ 3020 ● 212 35 1 0	<1 0 0 history1 3734 1205 94 23 0 0 0	<1 0 history2 7170 294 29 6 0 0 0
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ESS	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>20 limit/base >5000 >1300 >160 >40 >10 >3 >3 >19/17/14	6 <1 2 current ▲ 14776 ▲ 3020 ● 212 35 1 0 ▲ 21/19/15	<1 0 0 history1 3734 1205 94 23 0 0 0 19/17/14	<1 0 history2 7170 294 29 6 0 0 0 20/15/12

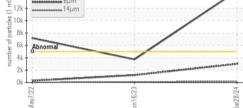
Report Id: BUCGRA [WUSCAR] 06135576 (Generated: 04/08/2024 10:02:59) Rev: 1

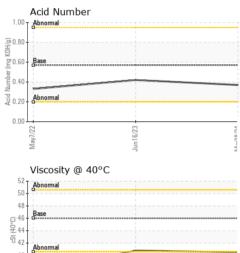
Contact/Location: MICHAEL LAWSON - BUCGR



OIL ANALYSIS REPORT







lun16/23

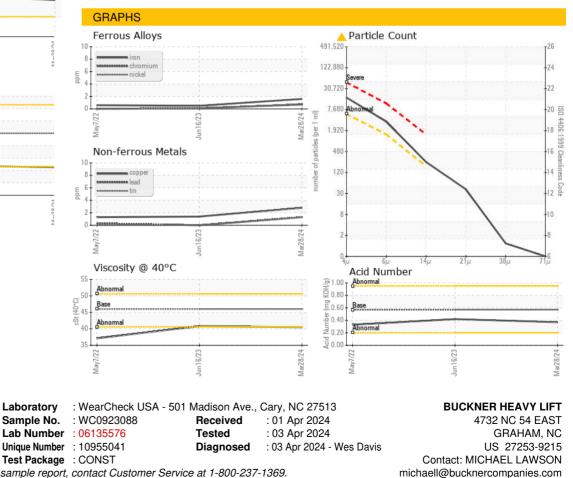
Certificate 12367

40

38 36

May7/22

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	46	40.5	40.8	37.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						



To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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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Contact/Location: MICHAEL LAWSON - BUCGRA

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