

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id MACHINE 410

Component Hydraulic System Fluid NOCO NOCOLUBE AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

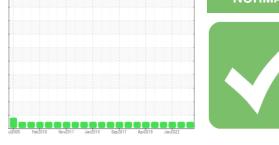
All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0933792	WC0847475	WC0629738
Sample Date		Client Info		20 Jun 2024	31 Oct 2023	06 Jan 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	1	<1	1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 2
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	0	2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	0	2 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	0 0 0	2 0 <1
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0	0 0 0 0	2 0 <1 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0 1	0 0 0 0 0	2 0 <1 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	40 250	0 0 0 1 67	0 0 0 0 0 59	2 0 <1 0 1 63
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	40 250	0 0 0 1 67 365	0 0 0 0 0 59 353	2 0 <1 0 1 63 354
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	40 250 310	0 0 0 1 67 365 409	0 0 0 0 59 353 394	2 0 <1 0 1 63 354 384
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	40 250 310 2540	0 0 0 1 67 365 409 2645	0 0 0 0 59 353 394 1816	2 0 <1 0 1 63 354 384 1351
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	40 250 310 2540 limit/base	0 0 0 1 67 365 409 2645 current	0 0 0 0 59 353 394 1816 history1	2 0 <1 0 1 63 354 384 1351 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	40 250 310 2540 limit/base	0 0 0 1 67 365 409 2645 current <1	0 0 0 0 59 353 394 1816 history1 <1	2 0 <1 0 1 63 354 384 1351 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	40 250 310 2540 limit/base >15	0 0 0 1 67 365 409 2645 <u>current</u> <1	0 0 0 0 59 353 394 1816 history1 <1 0	2 0 <1 0 1 63 354 384 1351 history2 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	40 250 310 2540 <i>limit/base</i> >15 >20	0 0 0 1 67 365 409 2645 current <1 1 1	0 0 0 0 59 353 394 1816 history1 <1 0 0	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	40 250 310 2540 limit/base >15 >20 limit/base >10000	0 0 0 1 67 365 409 2645 <u>current</u> 1 1 1	0 0 0 0 59 353 394 1816 history1 <1 0 0 0	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Sodium Potassium FLUID CLEANLIS Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	40 250 310 2540 limit/base >15 >20 limit/base >10000	0 0 0 1 67 365 409 2645 <i>current</i> 1 1 1 1 85	0 0 0 0 59 353 394 1816 history1 <1 0 0 0 history1 213	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 0 history2 84
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIS Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	40 250 310 2540 <i>limit/base</i> >15 >20 <i>limit/base</i> >10000 >1300 >160	0 0 0 1 67 365 409 2645 <i>current</i> <1 1 1 1 <i>current</i> 85 25	0 0 0 0 59 353 394 1816 history1 <1 0 0 0 history1 213 80	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 0 history2 84 26
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	40 250 310 2540 <i>limit/base</i> >15 >20 <i>limit/base</i> >10000 >1300 >160	0 0 0 1 67 365 409 2645 <i>current</i> <1 1 1 1 <i>current</i> 85 25 5	0 0 0 0 59 353 394 1816 history1 <1 0 0 0 history1 213 80 15	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 <1 0 history2 84 26 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Potassium Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	40 250 310 2540 limit/base >15 >20 limit/base >10000 >1300 >160 >40 >10	0 0 0 1 67 365 409 2645 <i>current</i> <1 1 1 1 <i>current</i> 85 25 5 1	0 0 0 0 59 353 394 1816 history1 <1 0 0 0 history1 213 80 15 4	2 0 <1 0 1 63 354 384 1351 history2 <1 <1 <1 0 vistory2 84 26 3 2

ISO 4406 (c) >20/17/14

14/12/10

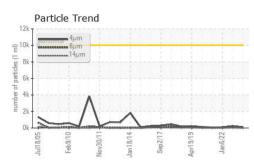
Oil Cleanliness

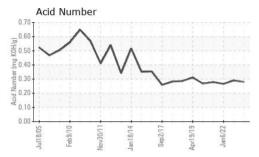
14/12/9

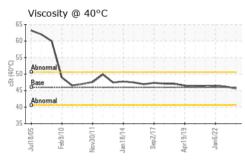
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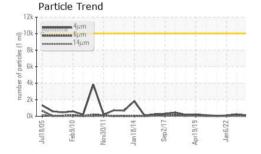


OIL ANALYSIS REPORT









FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	0.29	0.266
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	>0.05	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	46.0	45.6	46.2	46.5
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom

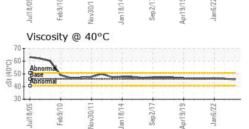
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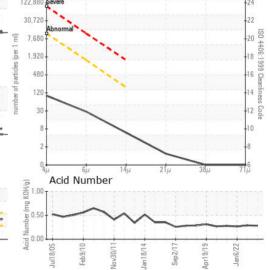
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Ferrous Alloys Particle Count 491,520 122,88 e chi 30,72 an6/77 eb9/10 Jan 18/14 pr19/19 Sep 2/17 per 1,920 cles 480 Non-ferrous Metals 120 30





ALLIANCE PRECISION PLASTICS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0933792 Sample No. Received : 25 Jun 2024 1220 LEE RD Lab Number : 06220358 Tested : 26 Jun 2024 ROCHESTER, NY Unique Number : 11098555 Diagnosed : 26 Jun 2024 - Wes Davis US 14606 Test Package : IND 2 Contact: RON ORT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rort@allianceppc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: AMPROC [WUSCAR] 06220358 (Generated: 06/29/2024 18:15:31) Rev: 1

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