

OIL ANALYSIS REPORT

Sample Rating Trend



Rear Load REL133322 Fluid

Area

Component Hydraulic System {not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is ISO 32 AW Hydraulic Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

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		PCA0122596	PCA0090701	PCA0083085	
Sample Date		Client Info		06 Jun 2024	03 Jul 2023	20 Feb 2023	
Machine Age	hrs	Client Info		27063	27063	24524	
Oil Age	hrs	Client Info		27063	26560	24524	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
CONTAMINATIO	ON	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR METALS	6	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	10	12	19	
Chromium	ppm	ASTM D5185m	>10	3	4	6	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>5	<1	<1	1	
Lead	ppm	ASTM D5185m	>4	0	0	<1	
Copper	ppm	ASTM D5185m	>15	3	4	6	
Tin	maa	ASTM D5185m	>4	0	0	1	
Vanadium	nom	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	2	4	
Barium	ppm	ASTM D5185m		<1	0	0	
Molvbdenum	maa	ASTM D5185m		<1	2	3	
Manganese	maa	ASTM D5185m		0	<1	<1	
Magnesium	naa	ASTM D5185m		8	11	14	
Calcium	maa	ASTM D5185m		114	119	153	
Phosphorus	ppm	ASTM D5185m		351	352	345	
Zinc	nom	ASTM D5185m		462	427	421	
Sulfur	ppm	ASTM D5185m		1176	1188	1028	
CONTAMINANT	rs	method	limit/base	current	history1	history2	
Silicon	maa	ASTM D5185m	>15	2	2	4	
Sodium	maa	ASTM D5185m		5	7	9	
Potassium	ppm	ASTM D5185m	>20	<1	1	2	
FLUID CLEANL	INESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	14771		3 7613	
Particles >6µm		ASTM D7647	>1300	<u> </u>		▲ 7255	
Particles >14µm		ASTM D7647	>160	77		A 395	
Particles >21µm		ASTM D7647	>40	9		▲ 55	
Particles >38µm		ASTM D7647	>10	0		2	
Particles >71um		ASTM D7647	>3	0		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		A 22/20/16	
FLUID DEGRAD	ATION	method	limit/base	current	historv1	historv2	
Acid Number (AN)	ma KOH/a	ASTM D8045		0.25	0.30	0.36	
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	🔺 MODER	LIGHT
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	LIGHT	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		34.4	34.5	36.2
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 UMM - Shop 401 - Norton Sample No. : PCA0122596 Received : 14 Jun 2024 186 South Washington Street Lab Number : 06210063 Tested : 17 Jun 2024 Norton, MA US 02766 Unique Number : 11082927 Diagnosed : 17 Jun 2024 - Wes Davis Test Package : MOB 2 Contact: P Cohen Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pcohen@win-waste.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)

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