

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 80-216 Component Hydraulic System Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity 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.

	AHON	methou	iiiiii/base	Current	TIIStory I	Thistory2
Sample Number		Client Info		WC0836163	WC0754767	WC0548917
Sample Date		Client Info		08 Mar 2024	24 Jan 2023	14 Sep 2021
Machine Age	hrs	Client Info		5298	4115	4116
Oil Age	hrs	Client Info		1182	1115	2116
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
VEAL WE THE		method		current	matory	Thistory 2
Iron	ppm	ASTM D5185m	>20	5	5	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	<1	2
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>75	4	3	4
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		3	3	4
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		117	114	99
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	1	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		20	19	22
Calcium	ppm	ASTM D5185m		3246	3308	3057
Phosphorus	ppm	ASTM D5185m		1113	1075	994
Zinc	ppm	ASTM D5185m		1277	1319	1233
Sulfur	ppm	ASTM D5185m		4728	4681	5785
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	17	16	11
Sodium	mag	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	3	4	1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	28319	▲ 25958	44420
Particles >6um		ASTM D7647	>1300	389	519	174
Particles >14um		ASTM D7647	>160	9	14	2
Particles >21um		ASTM D7647	>40	2	3	0
Particles >38um		ASTM D7647	>10	0	0	0

0

ISO 4406 (c) >19/17/14 **22/16/10**

ASTM D7647 >3

Particles >71µm

Oil Cleanliness

0

▲ 23/15/9

0

▲ 22/16/11



OIL ANALYSIS REPORT

A Particle Trend		
240k - 4μm 6μm 14μm		
saj 30k		
1 20k - 1 20k -		
2 10k Abnormal		
Sep14/21	Jan24/23	Mar8/24
A Particle Trend		
Ē 40k - 4μm - 6μm		





FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65	0.96	0.922
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		49.1	49.7	48.4
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
				TLEAN		

Color



Bottom





Certificate L2367

Submitted By: JAMES STEELMON