

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Front Load

FEL215598

**Hydraulic System** 

Component

### 🔺 Wear

The iron level is abnormal. The chromium level is abnormal.

#### Contamination

There is a high amount of silt (particulates < 14 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.

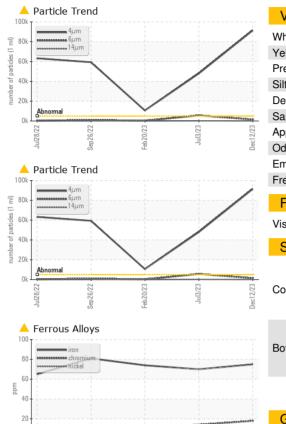
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SAMPLE INFORM	VIATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0110030	PCA0090699	PCA0083091		
Sample Date		Client Info		12 Dec 2023	03 Jul 2023	20 Feb 2023		
Machine Age	hrs	Client Info		4865	3828	1945		
Oil Age	hrs	Client Info		3828	3462	1945		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	<b>^</b> 75	<b></b> 70	<b></b> 74		
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<b>1</b> 4	9		
Nickel	ppm	ASTM D5185m	>4	<1	0	<1		
Titanium	ppm	ASTM D5185m		<1	0	<1		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>5	2	0	1		
Lead	ppm	ASTM D5185m	>4	<1	0	0		
Copper	ppm	ASTM D5185m	>15	12	10	11		
Tin	ppm	ASTM D5185m	>4	1	<1	<1		
Vanadium	ppm	ASTM D5185m		<1	<1	0		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	<1	0	0		
Barium	ppm	ASTM D5185m	5	7	0	0		
Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1		
Manganese	ppm	ASTM D5185m		2	1	1		
Magnesium	ppm	ASTM D5185m	25	47	49	50		
Calcium	ppm	ASTM D5185m	200	47	28	24		
Phosphorus	ppm	ASTM D5185m	300	387	302	279		
Zinc	ppm	ASTM D5185m	370	375	337	319		
Sulfur	ppm	ASTM D5185m	2500	1050	972	772		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	7	4	4		
Sodium	ppm	ASTM D5185m		11	8	5		
Potassium	ppm	ASTM D5185m	>20	4	2	2		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	<u> </u>	<b>4</b> 7958	🔺 10578		
Particles >6µm		ASTM D7647	>1300	<b>1447</b>	<b>6</b> 5631	252		
Particles >14µm		ASTM D7647	>160	25	<b>1</b> 65	18		
Particles >21µm		ASTM D7647	>40	9	28	6		
Particles >38µm		ASTM D7647	>10	0	0	0		
Particles >71µm		ASTM D7647		0	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 24/18/12	▲ 23/20/15	<b>2</b> 1/15/11		
FLUID DEGRAD		method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.32	0.31	0.31		
:32:15) Rev: 1	5 - 3							
					Submitted By: Dave Wilson Jr.			

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WEAR



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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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	32.2	32.3	32.1
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						
					1	

Bottom

