

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## Front Load FEL215598

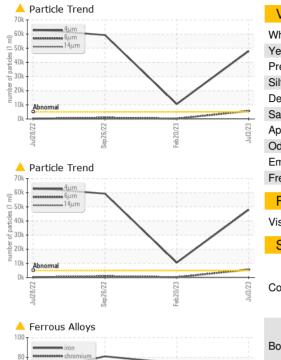
Component **Hydraulic System** 

## AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0090699	PCA0083091	PCA0078049
We recommend you service the filters on this	Sample Date		Client Info		03 Jul 2023	20 Feb 2023	26 Sep 2022
component. We recommend an early resample to	Machine Age	hrs	Client Info		3828	1945	1945
monitor this condition.	Oil Age	hrs	Client Info		3462	1945	1477
A Wear	Oil Changed		Client Info		N/A	N/A	N/A
Chromium and iron ppm levels are abnormal. Cylinder wear is indicated.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination	WEAR METAL	S	method	limit/base	current	history1	history2
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Iron	ppm	ASTM D5185m	>50	<b>/</b> 70	<b>A</b> 74	<b>A</b> 81
	Chromium	ppm	ASTM D5185m	>10	<u> </u>	9	6
Fluid Condition	Nickel	ppm	ASTM D5185m	>4	0	<1	0
The AN level is acceptable for this fluid. The	Titanium	ppm	ASTM D5185m		0	<1	0
condition of the oil is acceptable for the time in	Silver	ppm	ASTM D5185m		0	0	0
service.	Aluminum	ppm	ASTM D5185m	>5	0	1	<1
	Lead	ppm	ASTM D5185m	>4	0	0	0
	Copper	ppm	ASTM D5185m	>15	10	11	8
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	5	0	0	0
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	<1	<1	0
	Manganese	ppm	ASTM D5185m		1	1	2
	Magnesium	ppm	ASTM D5185m	25	49	50	59
	Calcium	ppm	ASTM D5185m	200	28	24	15
	Phosphorus	ppm	ASTM D5185m	300	302	279	291
	Zinc	ppm	ASTM D5185m	370	337	319	318
	Sulfur	ppm	ASTM D5185m	2500	972	772	896
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	4	4	4
	Sodium	ppm	ASTM D5185m		8	5	5
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
	FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<b>47958</b>	10578	▲ 59285
	Particles >6µm		ASTM D7647	>1300	<u> </u>	252	915
	Particles >14µm		ASTM D7647	>160	🔺 165	18	26
	Particles >21µm		ASTM D7647	>40	28	6	7
	Particles >38µm		ASTM D7647		0	0	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/20/15	▲ 21/15/11	▲ 23/17/12
	FLUID DEGRA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31	0.31	0.37



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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	32.3	32.1	32.2
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						
Bottom						

