

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# STORAGE TANK

New (Unused) Oil Fluid NOT GIVEN (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

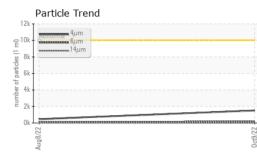
#### Fluid Condition

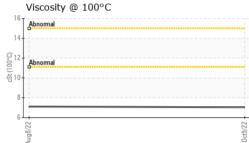
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

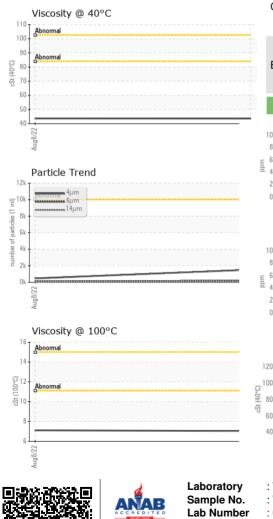
			Aug2022	Oct2022		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0743431	WC0591824	
Sample Date		Client Info		09 Oct 2022	08 Aug 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	0	0	
Chromium	ppm	ASTM D5185m	>5	<1	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>5	<1	<1	
Aluminum	ppm	ASTM D5185m	>5	<1	0	
Lead	ppm	ASTM D5185m	>5	0	<1	
Copper	ppm	ASTM D5185m	>5	2	1	
Tin	ppm	ASTM D5185m	>5	<1	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium	ppm	ASTM D5185m		35	39	
Phosphorus	ppm	ASTM D5185m		287	301	
Zinc	ppm	ASTM D5185m		376	370	
Sulfur	ppm	ASTM D5185m		2016	2257	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	10	9	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm		>20	0	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1514	466	
Particles >6µm		ASTM D7647	>1300	170	82	
Particles >14µm		ASTM D7647	>160	7	14	
Particles >21µm		ASTM D7647		2	3	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/17/14		16/14/11	
						histowy
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	0.24	



## **OIL ANALYSIS REPORT**







	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
0ct9/22	Appearance	scalar	*Visual	NORML	NORML	NORML	
0	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual		NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	IFS	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	111100030	43.63	43.68	
	Visc @ 40 C Visc @ 100°C	cSt	ASTM D445 ASTM D445		7.04	7.11	
	Viscosity Index (VI)	Scale	ASTM D2270		120	122	
	SAMPLE IMAGES	5	method	limit/base	current	history1	history2
0c8/22	Color						no image
	Bottom						no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	10 8 iron			491,520	, I		T <sup>2</sup>
F	chromium			122,880	Severe		-2
	4			30,720			-2
	2				Abnormal		
	52			2 (E 7,680			-2
	Aug8/22			[per 1 m]]			-11
	Non-ferrous Metal	c		·편 480			-11
	<sup>10</sup> T	5		of ba		×	
	8 - copper			ag 120			-1
E Contraction of the Contraction	6 - tin			2 30			+1
	2						-10
	0						
	Aug 8/2'			0ct9/22	2+		-8
				- -	44 64	14µ 21µ	38µ 71µ
	Viscosity @ 40°C				Acid Number	pe 2 1 pe	50µ /1µ
	Abnormal			( <sup>B</sup> H0.30			
() ()	Abnormal			0.0.3 0.10 0.00 0.00 0.00 0.00 0.00 0.00			
55	80				2		
U	60 -				3		
	40 2			90.0 Acid			
	Aug8/22			0ct9/22	Aug 8/22		
Sample No. Lab Number Unique Number	: 05662685 : 10167254	Received Diagnos Diagnos	d : 10 ( ed : 12 ( tician : Jon	Oct 2022 Oct 2022 athan Hester			) SE HWY 2 ACKAMAS, C US 970

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

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