WEAR CONTAMINATION FLUID CONDITION

NORMAL

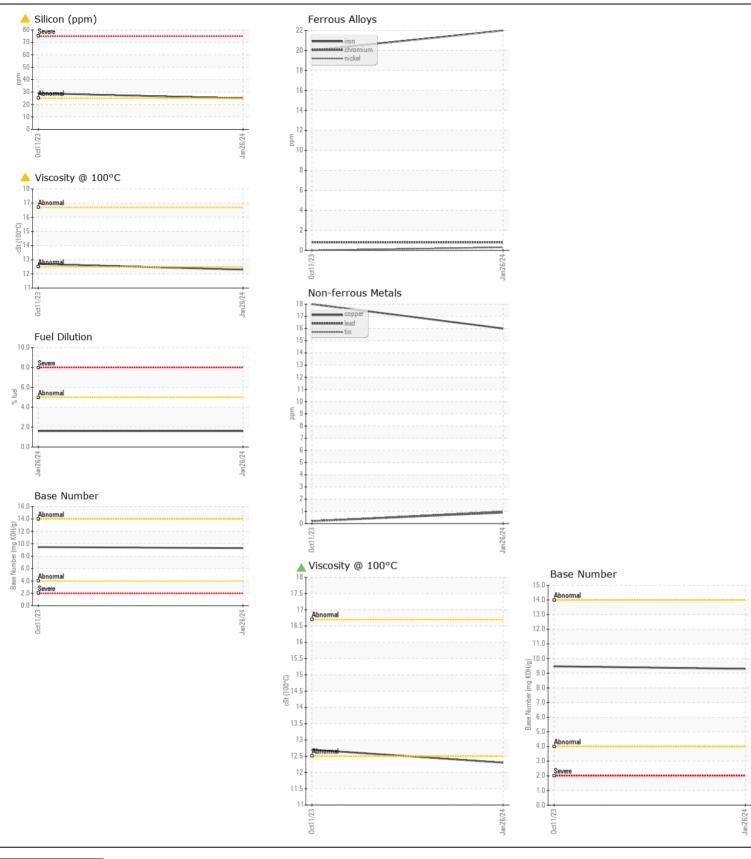
ABNORMAL

ATTENTION

Machine Id **317E**

Component _

Component Diesel Engine Fluid							
{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		KL0013274	KL0012894	
	Sample Date	bro	Client Info		26 Jan 2024	11 Oct 2023 3410	
	Machine Age	hrs	Client Info		4738	1	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	1 -	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed Sample Status		Client Info		N/A ABNORMAL	N/A ABNORMAL	
······							
WEAR	Iron	ppm	ASTM D5185m	>100	22	20	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	5	4	
	Lead	ppm	ASTM D5185m	>40	<1	<1	
	Copper	ppm	ASTM D5185m	>330	16	18	
	Tin	ppm	ASTM D5185m	>15	1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2 5	△ 29	
	Potassium	ppm	ASTM D5185m	>20	8	10	
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Fuel	%	ASTM D3524	>5	1.6	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	22.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELLID CONDITION	Sodium	nnm	ACTM DE10Em		2	G	
FLUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m		2 34	6 57	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		3	4	
	Molybdenum	ppm	ASTM D5185m		36	40	
	Manganese	ppm	ASTM D5185m		4	40	
	Magnesium	ppm	ASTM D5185m		4 464	541	
	Calcium	ppm	ASTM D5185m		1290	1573	
	Phosphorus	ppm	ASTM D5185m		627	698	
	Zinc	ppm	ASTM D5185m		757	956	
	Sulfur	ppm	ASTM D5185m		1987	2399	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	20.6	
	Base Number (BN)				9.3	9.47	
	Visc @ 100°C	cSt	ASTM D445		▲ 12.3	12.7	
	visc@ 100°C	UOL	ASTIVI D445		12.3	12./	





Report Id: CITART [WUSCAR] 06089441 (Generated: 02/20/2024 04:51:55) Rev: 1

Laboratory Sample No.

: KL0013274 Lab Number : 06089441 Unique Number: 10876886

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

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

Diagnosed

: 19 Feb 2024 : 19 Feb 2024 - Jonathan Hester

: 14 Feb 2024

CITY OF ARTESIA P.O. BOX 1310 ARTESIA, NM US 88211

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact: JIMMY L. BUSTAMANTE JBUSTAMANTE@ARTESIANM.GOV T: (575)748-8812

Contact/Location: JIMMY L. BUSTAMANTE - CITART

F: (575)746-2390