

OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

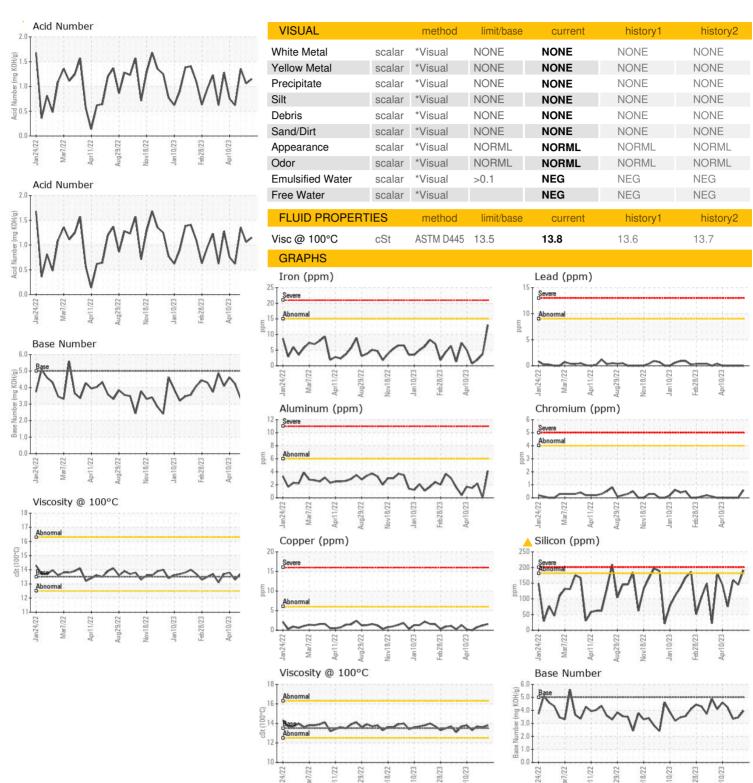
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

LA S3 N 40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0775122	WC0770239	WC0770237
Sample Date		Client Info		13 Jul 2023	01 May 2023	28 Apr 2023
Machine Age	hrs	Client Info		38435	38269	38200
Oil Age	hrs	Client Info		557	391	322
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>15	13	4	2
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	4	0	2
_ead	ppm	ASTM D5185m	>9	0	0	0
Copper	ppm	ASTM D5185m	>6	2	1	<1
Γin	ppm	ASTM D5185m	>4	4	2	1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	13	13
Calcium	ppm	ASTM D5185m		1774	1603	1695
Phosphorus	ppm	ASTM D5185m		360	325	348
Zinc	ppm	ASTM D5185m				
		AO IIVI DO IOOIII		448	431	430
Sulfur	ppm	ASTM D5185m		448 4133	431 3476	430 3598
Sulfur CONTAMINANTS	ppm		limit/base	_		3598
CONTAMINANTS Silicon	ppm	ASTM D5185m method ASTM D5185m		4133 current 191	3476 history1 145	3598
CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m method		4133 current	3476 history1	3598 history2
CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m method ASTM D5185m	>181	4133 current 191	3476 history1 145	3598 history2 160
CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>181	4133	3476 history1 145 0	3598 history2 160 <1 0
CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>181	4133 current 191 0 0	3476 history1 145 0	3598 history2 160 <1 0
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>181 >20 limit/base	4133 current 191 0 current	3476 history1 145 0 1 history1 0.1 4.7	3598 history2 160 <1 0 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm	Method ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844	>181 >20 limit/base	4133 current 191 0 current 0.1	3476 history1 145 0 1 history1 0.1	3598 history2 160 <1 0 history2 0.1
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>181 >20 limit/base >20	4133 current ▲ 191 0 current 0.1 5.6	3476 history1 145 0 1 history1 0.1 4.7	3598 history2 160 <1 0 history2 0.1 4.8
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>181 >20 limit/base >20 >30	4133 current 191 0 current 0.1 5.6 23.4	3476 history1 145 0 1 history1 0.1 4.7 19.8	3598 history2 160 <1 0 history2 0.1 4.8 20.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>181 >20 limit/base >20 >30 limit/base	4133 current 191 0 0 current 0.1 5.6 23.4 current	3476 history1 145 0 1 history1 0.1 4.7 19.8 history1	3598 history2 160 <1 0 history2 0.1 4.8 20.1 history2



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Certificate L2367

Laboratory Sample No. Lab Number

: 05900132 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 17 Jul 2023 : WC0775122 Received : 21 Jul 2023

: Jonathan Hester

Diagnosed : 10561488 Diagnostician Test Package : MOB 2

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.

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

EDL NA Recips-Morgantown

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