OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL SEVERE NORMAL

Machine Id

86

Component Front Differential

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR0001565	TR0001296	TR000083
	Sample Date		Client Info		03 Jul 2024	12 Dec 2023	07 Jun 202
	Machine Age	hrs	Client Info		21408	20473	19767
	Oil Age	hrs	Client Info		21408	20473	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed		Client Info		N/A	N/A	Not Chang
	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>500	428	134	307
Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>10	3	<1	2
	Nickel	ppm	ASTM D5185m	>10	3	<1	1
	Titanium	ppm	ASTM D5185m		4	1	3
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>25	50	1 9	41
	Lead	ppm	ASTM D5185m	>25	14	7	9
	Copper	ppm	ASTM D5185m	>100	132	65	87
	Tin	ppm	ASTM D5185m	>10	9	4	6
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	440	<u> </u>	▲ 388
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	25	8	19
	Water		WC Method	>.2	NEG	NEG	NEG
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		18	7	16
The Abilian Lie acceptable for this fleid. The ellie actions of	Boron	ppm	ASTM D5185m		264	193	247
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		23	3	10
	Manganese	ppm	ASTM D5185m		6	2	4
	Magnesium	ppm	ASTM D5185m		8	5	6
	Calcium	ppm	ASTM D5185m		202	95	166
	Phosphorus	ppm	ASTM D5185m		953	1018	1008
	Zinc	ppm	ASTM D5185m		17	4	2
	Sulfur	ppm	ASTM D5185m		18560	18808	22785
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.41	1.36	1.52
	Visc @ 40°C	cSt	ASTM D445		382	379	
	V130 @ +0 0	001	7101111 0 1 1 1 0		302	070	

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 105

ASTM D445 30

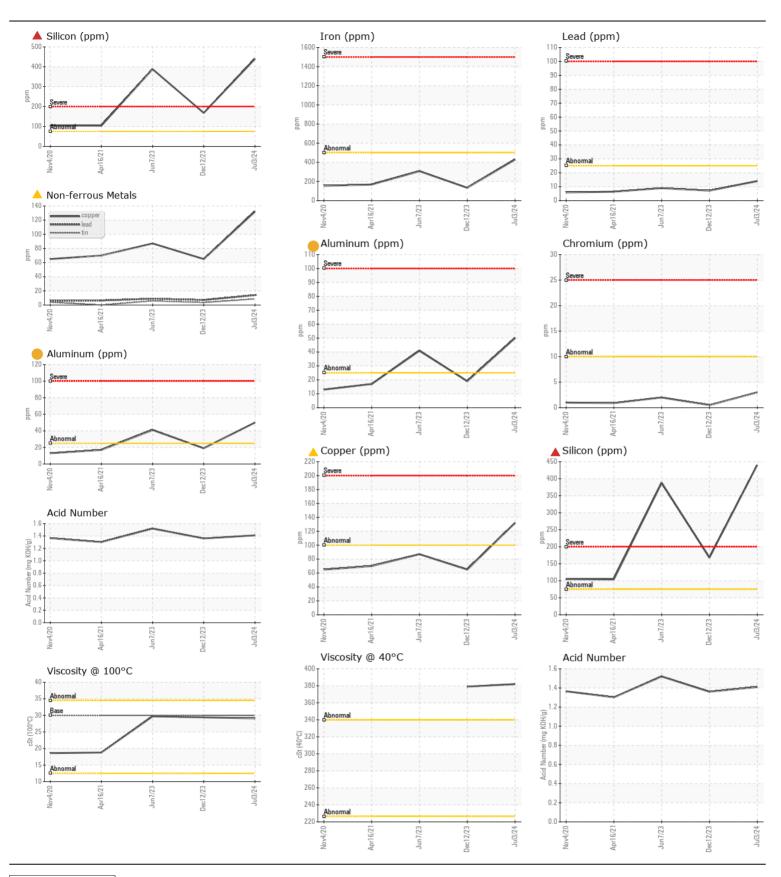
29.4

107

29.1

105

29.7





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 11113821

: TR0001565 : 06230328

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

Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 09 Jul 2024 : 10 Jul 2024 - Don Baldridge

: 08 Jul 2024

S S CONCRETE MATERIALS LLC P.O. BOX 23283

BULLHEAD CITY, AZ US 86439

Contact: MARK OPHEIM

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

F: (928)754-1991

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