OIL ANALYSIS REPORT

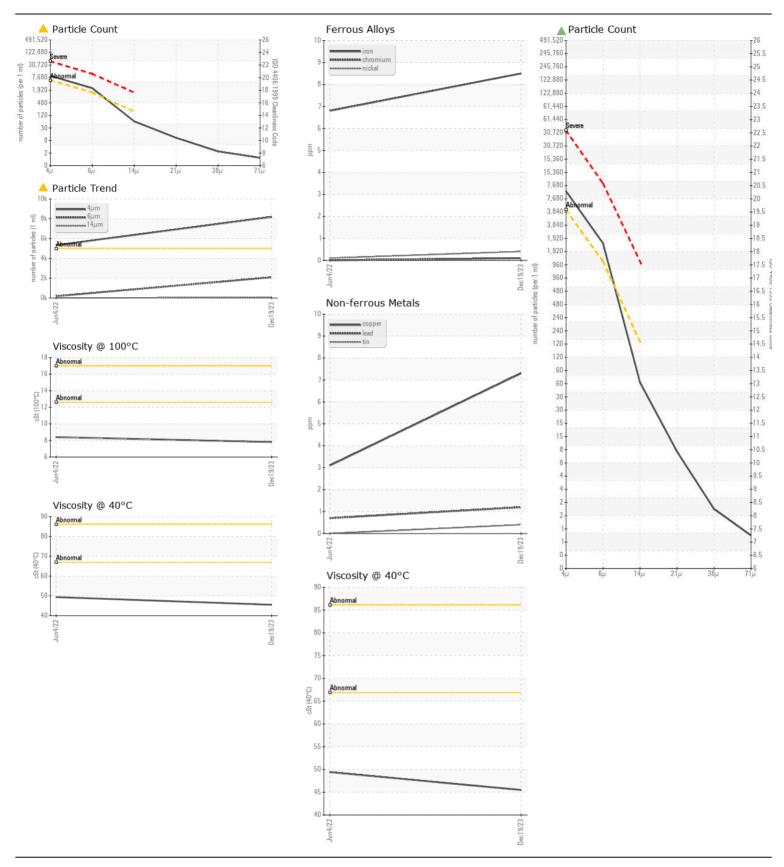
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION NORMAL

CATERPILLAR 328D-LCR 567811 (S/N RMX00229)

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR02607027	TR02498071	
	Sample Date		Client Info		19 Dec 2023	04 Jun 2022	
	Machine Age	hrs	Client Info		7054	6290	
	Oil Age	hrs	Client Info		1753	989	
	Filter Age	hrs	Client Info		1753	989	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185(m)	>20	8	7	
	Chromium	ppm	ASTM D5185(m)		<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1	<1	
	Titanium	ppm	ASTM D5185(m)	710	0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>10	2	2	
	Lead	ppm	ASTM D5185(m)		1	<1	
	Copper	ppm	ASTM D5185(m)		7	3	
	Tin	ppm	ASTM D5185(m)		<1	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		3	4	
There is a light amount of ailt (particulates a 14 migrans in aiza)	Potassium	ppm	ASTM D5185(m)		2	5	
There is a light amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		A 8186	▲ 5334	
	Particles >6µm		ASTM D7647		2091	179	
	Particles >14μm		ASTM D7647		55	7	
	Particles >21μm		ASTM D7647		9	2	
	Particles >38μm		ASTM D7647		2	1	
	Particles >71μm		ASTM D7647		1	1	
	Oil Cleanliness		ISO 4406 (c)		2 0/18/13	2 0/15/10	
	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*	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	2	
	Boron	ppm	ASTM D5185(m)		4	4	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		<1	1	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)		16	16	
	Calcium	ppm	ASTM D5185(m)		2290	2314	
	Phosphorus	ppm	ASTM D5185(m)		912	899	
	Zinc	ppm	ASTM D5185(m)		1056	1032	
	Sulfur	ppm	ASTM D5185(m)		3417	3274	
	Visc @ 40°C	cSt	ASTM D7279(m)		45.5	49.4	
	Visc @ 100°C	cSt	ASTM D7279(m)		7.8	8.4	
	Viscosity Index (VI)	Scale	ASTM D2270*		141	145	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : TR02607027 : 02607027

Recieved : 5708113

: 08 Jan 2024 Diagnosed : 09 Jan 2024 Diagnostician : Kevin Marson

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

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) **WILCO CONTRACTORS** 3031 ARTHUR ST ROSSLYN, ON CA P7K 0P2

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