

Machine Id

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ATTENTION

CATERPILLAR MAS71483

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as

received from the customer. The condition of the sample and the method of sampling cannot be verified.

WEAR

All component wear rates are normal.

CONTAMINATION

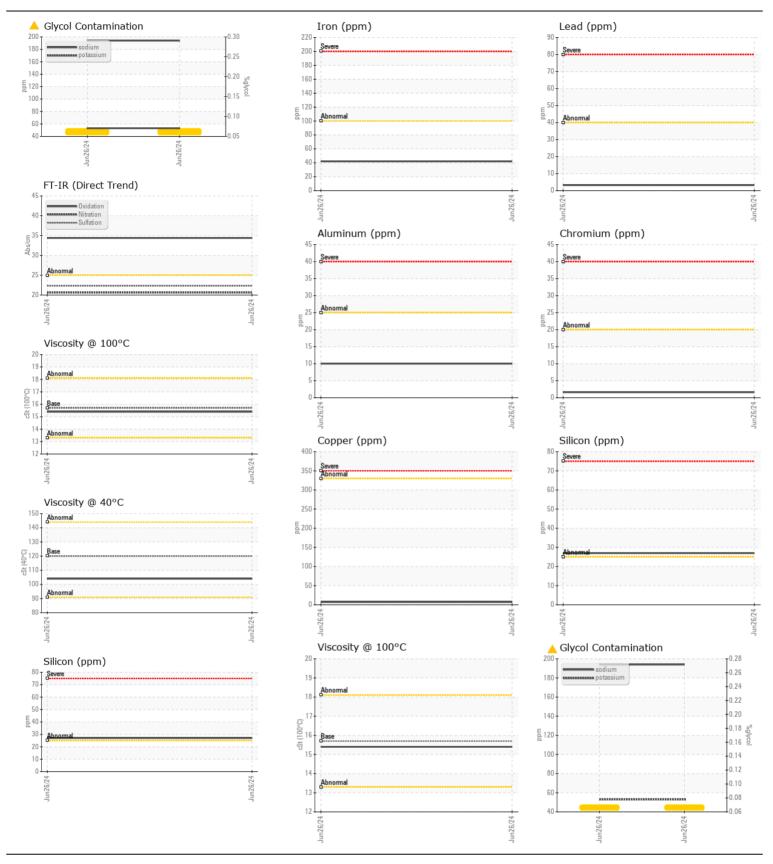
Test for glycol is positive. There is a moderate concentration of glycol present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Num	ber	Client Info		CU0022706		
Sample Dat	е	Client Info		26 Jun 2024		
Machine Ag		Client Info		0		
Oil Age	kms	Client Info		15000		
Filter Age	kms	Client Info		15000		
Oil Change		Client Info		Changed		
Filter Chang		Client Info		Changed		
Sample Sta				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>100	42		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	10		
Lead	ppm	ASTM D5185(m)	>40	3		
Copper	ppm	ASTM D5185(m)	>330	7		
Tin	ppm	ASTM D5185(m)	>15	, <1		
Vanadium	ppm	ASTM D5185(m)	210	0		
White Metal		Visual*	NONE	NONE		
Yellow Meta		Visual*	NONE	NONE		
	Soulai		NONE			
Silicon	ppm	ASTM D5185(m)	>25	27		
Potassium	ppm	ASTM D5185(m)	>20	5 3		
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol	%	ASTM D7922*		0.07		
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	20.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	🔺 LIGHT		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	e scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Wa	ater scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		— 194		
Boron	ppm	ASTM D5185(m)	35	53		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenur	n ppm	ASTM D5185(m)	0	9		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	10	91		
Calcium	ppm	ASTM D5185(m)	2340	1874		
Phosphorus	ppm	ASTM D5185(m)	1110	807		
Zinc	ppm	ASTM D5185(m)	1210	997		
Sulfur	ppm	ASTM D5185(m)	3890	2625		
Oxidation	Abs/.1mm	ASTM D7414*	>25	34.4		
Visc @ 40°	C cSt	ASTM D7279(m)	120.	104		
Visc @ 100	°C cSt	ASTM D7279(m)	15.7	15.4		
Viscosity Index	(VI) Scale	ASTM D2270*	139	156		

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

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STEER ENTERPRISES LTD Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received 7051 COUNTY ROAD 9 : CU0022706 : 27 Jun 2024 ١ť Lab Number : 02644466 STAYNER, ON Tested : 03 Jul 2024 ISO 17025:2017 Accredited : 03 Jul 2024 - Kevin Marson CA LOM 1S0 Unique Number : 5802005 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, Glycol, KV40, VI, Oversteb): Service Manager To discuss this sample report, contact Customer Service at 1-800-268-2131. caitlyn@steer.ca T: Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.