WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

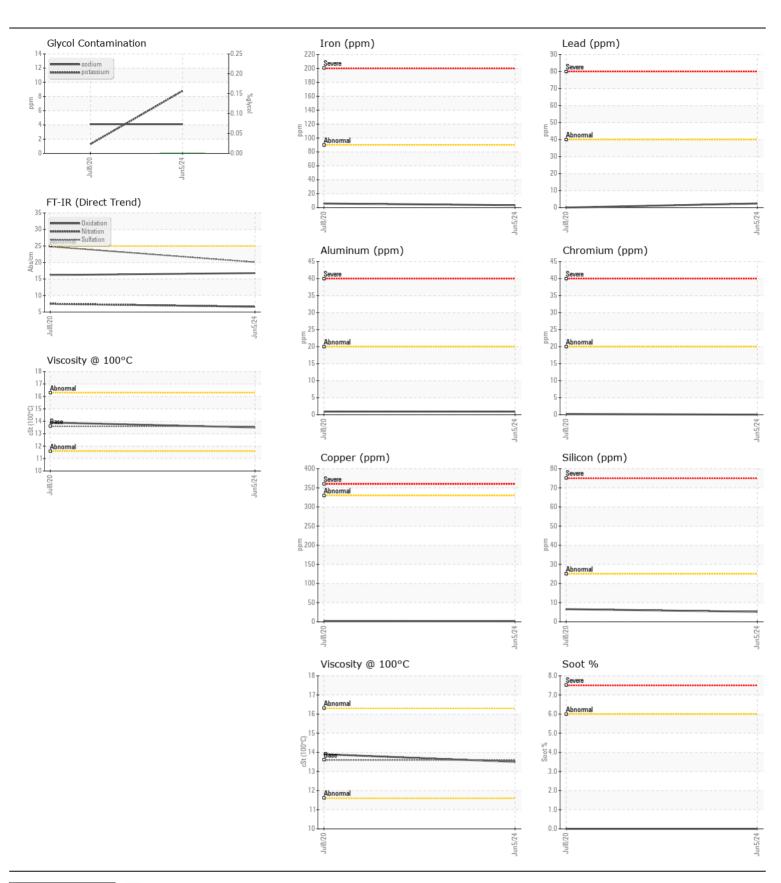
Machine Id

74053480

Component Diesel Engine

VALVOLINE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		CU0022814	CU0016573	
	Sample Date		Client Info		05 Jun 2024	08 Jul 2020	
	Machine Age	hrs	Client Info		141	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>90	3	6	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		0	<1	
	Nickel	ppm	ASTM D5185(m)		<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		<1	0	
	Aluminum	ppm	ASTM D5185(m)		<1	<1	
	Lead	ppm	ASTM D5185(m)		2	0	
	Copper	ppm	ASTM D5185(m)		2	2	
	Tin	ppm	, ,	>15	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	0.00		AOTM DE40E()	05			
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		5	7 1	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		9	·	
	Fuel Water		WC Method	>3.0	<1.0	<1.0	
		0/	WC Method ASTM D7922*	>0.2	NEG	NEG NEG	
	Glycol Soot %	%		. 6	0.0 0	0	
	Nitration		ASTM D7844* ASTM D7624*				
		Abs/cm		>20	6.6 20.1	7.5	
	Sulfation Silt	Abs/.1mm		>30	NONE	24.8	
	Debris	scalar	Visual* Visual*	NONE			
	Sand/Dirt	scalar	Visual*	NONE	VLITE		
	Appearance	scalar	Visual*	NONE NORML	NONE NORML		
	Odor	scalar scalar	Visual*	NORML	NORML		
	Emulsified Water			>0.2	NEG	NEG	
	Lindisined Water		v ioudi	70.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		40	63	
	Barium	ppm	ASTM D5185(m)	1	0	0	
	Molybdenum	ppm	ASTM D5185(m)	49	44	44	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		738	622	
	Calcium	ppm	ASTM D5185(m)		1159	1447	
	Phosphorus	ppm	ASTM D5185(m)	899	673	1011	
	Zinc	ppm	ASTM D5185(m)		791	1166	
	Sulfur	ppm	ASTM D5185(m)	2624	1896	2565	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	16.2	
	Visc @ 100°C	cSt	ASTM D7279(m)	13.6	13.5	13.9	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02643372 Unique Number : 5800911

: CU0022814 Received **Tested**

: 21 Jun 2024 : 21 Jun 2024 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, Visual)

: 21 Jun 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION 7175 PACIFIC CIRCLE MISSISSAUGA, ON CA L5T 2A5 Contact: Elisia Johnson

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Validity of results and interpretation are based on the sample and information as supplied.