

[816557] Machine Id INTERNATIONAL 202023 Component

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIESEL ENGINE OIL SAE TUWSU (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PC0071721		
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Sep 2023		
	Machine Age	kms	Client Info		70594		
	Oil Age	kms	Client Info		0		
	Filter Age	kms	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)		5		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)	>4	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		<1		
	Aluminum	ppm	ASTM D5185(m)	>20	<1		
	Lead	ppm	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)		<1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Ciliana			05			
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		0		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	. 0	NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration Sulfation	Abs/cm Abs/.1mm	ASTM D7624* ASTM D7415*	>20 >30	4.4 17.5		
	Silt		Visual*	NONE	NONE		
	Debris	scalar					
	Sand/Dirt	scalar scalar	Visual* Visual*	NONE NONE	VLITE NONE		
	Appearance		Visual*	NORML	NORML		
	Odor	scalar scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
		Scalai	visuai	20.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
	Boron	ppm	ASTM D5185(m)	250	6		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)	10	<1		
	Molybdenum	ppm	ASTM D5185(m)	100	60		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	450	959		
	Calcium	ppm	ASTM D5185(m)	3000	1054		
	Phosphorus	ppm	ASTM D5185(m)	1150	1010		
	Zinc	ppm	ASTM D5185(m)		1167		
	Sulfur	ppm	ASTM D5185(m)		2645		
	Oxidation	Abs/.1mm	ASTM D7414*		13.1		
	Visc @ 40°C	cSt	ASTM D7279(m)	73	73.5		
	Visc @ 100°C	cSt	ASTM D7279(m)		11.2		
	Viccosity Index (VII)				140		

Viscosity Index (VI) Scale ASTM D2270* 138

143



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **City of Toronto** CALA Sample No. Received : 26 Oct 2023 1026 Finch Ave W. : PC0071721 Lab Number : 02592036 : 26 Oct 2023 Toronto, ON Tested ISO 17025:2017 Accredited : 26 Oct 2023 - Wes Davis CA M3J 2E1 Unique Number : 5669115 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: KV40, VI, Visual) **Contact: Fleet Diagnostics** To discuss this sample report, contact Customer Service at 1-800-268-2131. Fleetdiagnostics@toronto.ca T: (416) 39-5 6355 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.