

Machine Id **NO UNIT 02645782** Component **Diesel Engine** Fluid {not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring.

FLUID CONDITION

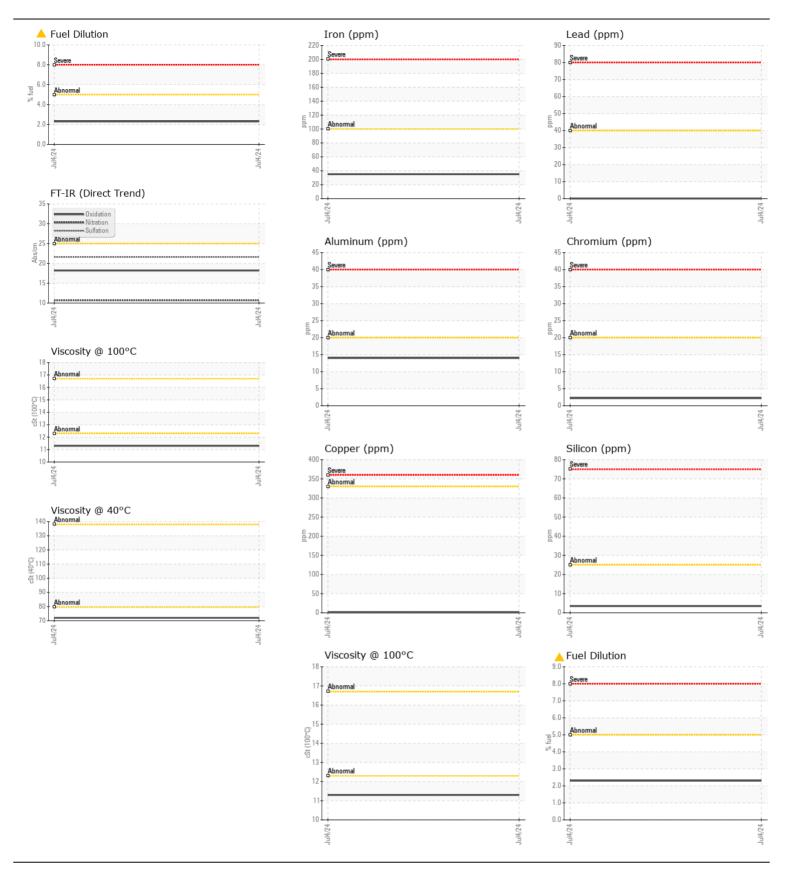
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC		
Sample Date		Client Info		04 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				MARGINAL		
Iron	ppm	ASTM D5185(m)	>100	35		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	14		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	1		
Tin	ppm	ASTM D5185(m)	>15	0		
Vanadium	ppm	ASTM D5185(m)		0		
Silicon	ppm	ASTM D5185(m)	>25	4		
Potassium	ppm	ASTM D5185(m)	>20	19		
Fuel	%	ASTM D7593*	>5	2 .3		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*	>3	1.2		
Nitration	Abs/cm	ASTM D7624*	>20	10.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		2		
Boron		ASTM D5185(m)		8		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	()		-		
	ppm	ASTM D5185(m)		56		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		875		
Calcium	ppm	ASTM D5185(m)		1000		
Phosphorus	ppm	ASTM D5185(m)		930		
Zinc	ppm	ASTM D5185(m)		1117		
Sulfur	ppm	ASTM D5185(m)	67	2369		
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2		
Visc @ 40°C	cSt	ASTM D7279(m)		72.0		
Visc @ 100°C	cSt	ASTM D7279(m)		11.3		
Viscosity Index (VI)	Scale	ASTM D2270*		1/10		

Viscosity Index (VI) Scale ASTM D2270*

Contact/Location: Steve Andrade - WASNOR

149



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Wasteco CALA Sample No. : PC Received 161 Bridgeland Ave. : 05 Jul 2024 Lab Number : 02645782 Tested Toronto, ON : 08 Jul 2024 ISO 17025:2017 Accredited Unique Number : 5803321 : 08 Jul 2024 - Kevin Marson CA M6A 1Z1 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) Contact: Steve Andrade To discuss this sample report, contact Customer Service at 1-800-268-2131. sandrade@wasteco.com T: (416)787-5000 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. F: (416)787-6210

Contact/Location: Steve Andrade - WASNOR Page 2 of 2