

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

[NC-PMO3035679] Machine Id DETROIT 23.9L 250054 (S/N 0688849) Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0028734		
	Sample Date		Client Info		10 May 2024		
	Machine Age	hrs	Client Info		1413		
	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				NORMAL		
WEAR	Iron		ASTM D5185m	. 200	1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		۱ <1		
	Nickel	ppm	ASTM D5185m				
		ppm			<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel		WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.3		
	Sulfation	Abs/.1mm	*ASTM D7415		17.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.							
	Sodium	ppm	ASTM D5185m		1		
	Boron	ppm	ASTM D5185m		41		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	49		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	812		
	Calcium	ppm	ASTM D5185m		1310		
	Phosphorus	ppm	ASTM D5185m	1150	1058		
	Zinc	ppm	ASTM D5185m	1350	1279		
	Sulfur	ppm	ASTM D5185m	4250	3623		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7		
	Base Number (BN)	mg KOH/g			9.0		
	N" 0 10030	0	AOTHORIS	444			

Visc @ 100°C cSt

ASTM D445 14.4

14.3



Unique Number : 11044174 Diagnosed : 23 May 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN) Contact: LESLIE SNURR Certificate L2367 LSNURR@KGE.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

Contact/Location: LESLIE SNURR - KELOWI Page 2 of 2

US 20736

T: (410)257-5225

F: (410)257-5227