

Machine Id 9744 Component **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- QTS)

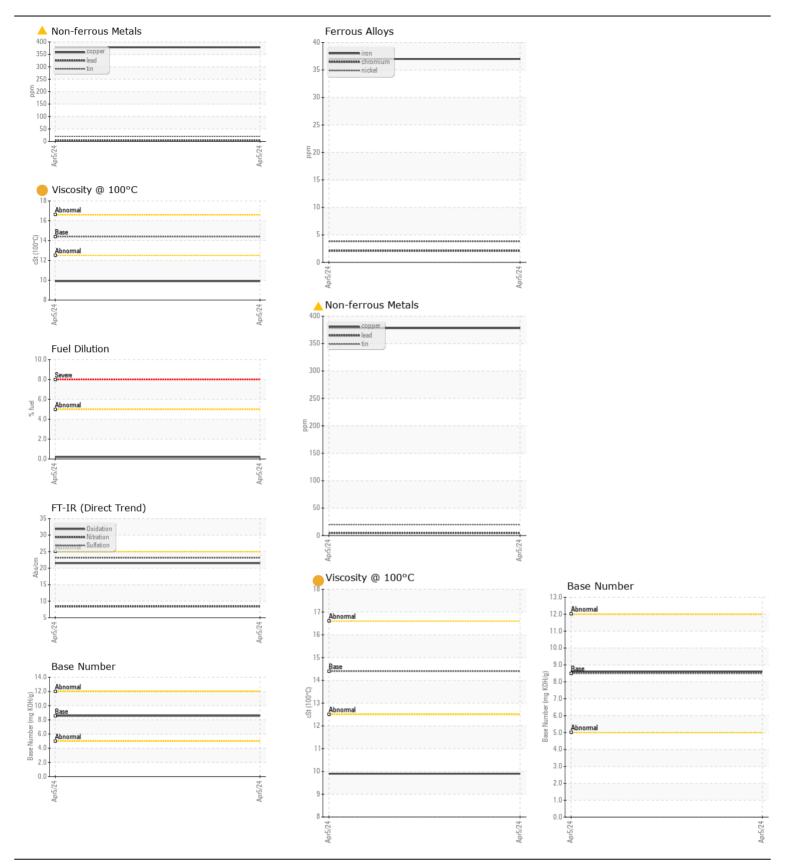
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample	Sample Number		Client Info		WC0879901		
at the next service interval to monitor.	Sample Date	male	Client Info		05 Apr 2024		
	Machine Age	mls	Client Info		15000		
	Oil Age	mls	Client Info		15000		
	Filter Age	mls	Client Info		15000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	37		
	Chromium	ppm	ASTM D5185m		2		
The copper level is abnormal. In the absence of other significant wear	Nickel	ppm	ASTM D5185m		4		
metals, suspect copper due to sources other than wear (i.e. cooling	Titanium	ppm	ASTM D5185m		<1		
core). All other metal levels are typical for a new component breaking	Silver	ppm	ASTM D5185m	>3	<1		
in.	Aluminum	ppm	ASTM D5185m		15		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		→ → 378		
	Tin	ppm	ASTM D5185m		20		
	Vanadium	ppm	ASTM D5185m	210	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		304141	Visual	NONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
	Potassium	ppm	ASTM D5185m	>20	52		
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D3524	>5	0.2		
the oil.	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1		
	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	Sodium	ppm	ASTM D5185m		4		
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		72		
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m	100	47		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m	450	557		
	Calcium	ppm	ASTM D5185m	3000	1966		
	Phosphorus	ppm	ASTM D5185m	1150	851		
	Zinc	ppm	ASTM D5185m	1350	1041		
	Sulfur	ppm	ASTM D5185m	4250	2799		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6		
	Vier @ 10000	- 0+	ACTN DAAS	4 4 4	• • •		

Visc @ 100°C cSt

ASTM D445 14.4

9.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SALEM NATIONALEASE CORPORATION Sample No. Received 198 PARK PLAZA DRIVE : WC0879901 : 11 Apr 2024 Lab Number : 06145742 WINSTON SALEM, NC Tested : 16 Apr 2024 US 27105 Unique Number : 10970550 Diagnosed : 16 Apr 2024 - Jonathan Hester Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) **Contact: Audrey Hopkins** Certificate L2367 Audrey.Hopkins@salemcorp.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. T: (336)767-9642 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2