

## [12623] KENWORTH T270 SHM3 Will Hales Kenworth (S/N 2NKHHM6X5JM188363) Diesel Engine Eluid

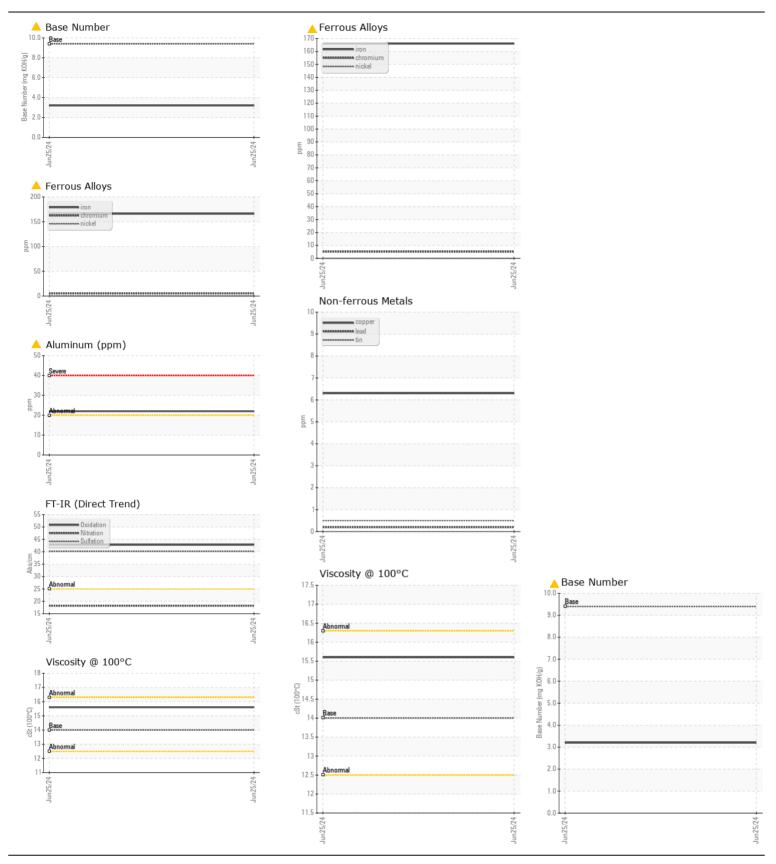
## MOBIL DELVAC 1300 SUPER15W40 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00IVI	Client Info	LITTUAUT	SHM0000041		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Time on oil is about 20,000 miles. Went over on service interval )	Sample Date		Client Info		25 Jun 2024		
	Machine Age	mls	Client Info		150088		
	Oil Age	mls	Client Info		20000		
	Filter Age	mls	Client Info		20000		
	Oil Changed	11115	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	<b>166</b>		
	Chromium	ppm	ASTM D5185m	>20	5		
Piston and cylinder wear is indicated.	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	<b>A</b> 22		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		16		
Sodium and/or potassium levels are high. Test for glycol is negative.	Potassium	ppm	ASTM D5185m		<b>4</b> 9		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	1.1		
	Nitration	Abs/cm	*ASTM D7624	>20	18.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	40.1		
	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		
	Sodium				61		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	▲ 61 12		
The BN level is low. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		13		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	0	23		
	Manganese	ppm	ASTM D5185m	0	2		
	Magnesium	ppm	ASTM D5185m	0	232		
	Calcium	ppm	ASTM D5185m		2535		
	Phosphorus Zin e	ppm	ASTM D5185m		980		
	Zinc	ppm	ASTM D5185m		1319		
	Sulfur	ppm	ASTM D5185m	05	3864		
	Oxidation	Abs/.1mm	*ASTM D7414		42.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>A</b> 3.2		

Visc @ 100°C cSt

ASTM D445 14

15.6



SOUND HEAVY MACHINERY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回行 Sample No. : SHM0000041 Received 1809 BLUE CLAY RD : 02 Jul 2024 Lab Number : 06225939 Tested : 05 Jul 2024 WILMINGTON, NC : 05 Jul 2024 - Jonathan Hester Unique Number : 11109432 US 28405 Diagnosed Test Package : CONST (Additional Tests: Glycol, TBN) Contact: CONNER GORE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cgore@soundhm.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (910)782-2477 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (910)782-2477

Submitted By: SERVICE MANAGER Page 2 of 2