

## Machine Id C-18 Component **Diesel Engine** DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0840561	WC0871059	WC0871060
	Sample Date		Client Info		23 Mar 2024	24 Feb 2024	19 Jan 2024
	Machine Age	hrs	Client Info		12953	12757	12591
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	3	3	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	2	2
	Titanium	ppm	ASTM D5185m	21	0	0	0
	Silver		ASTM D5185m	-3	0	0	0
	Aluminum	ppm	ASTM D5185m		0	1	<1
		ppm			-	1	
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0		<1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	0
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	1	2	4
	Potassium	ppm	ASTM D5185m	>20	0	0	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.7	6.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.3	18.4	18.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m		<1	2	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	3	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	57	61	54
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		1017	824	893
	Calcium	ppm	ASTM D5185m		1320	1147	1169
	Phosphorus	ppm	ASTM D5185m	1150	1152	894	983
	Zinc	ppm	ASTM D5185m	1350	1358	1120	1205
	Sulfur	ppm	ASTM D5185m	4250	4165	2963	3203
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.9	13.8
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.81	8.8	8.7
		°€‡		1 4 4	444	12.0	14.0

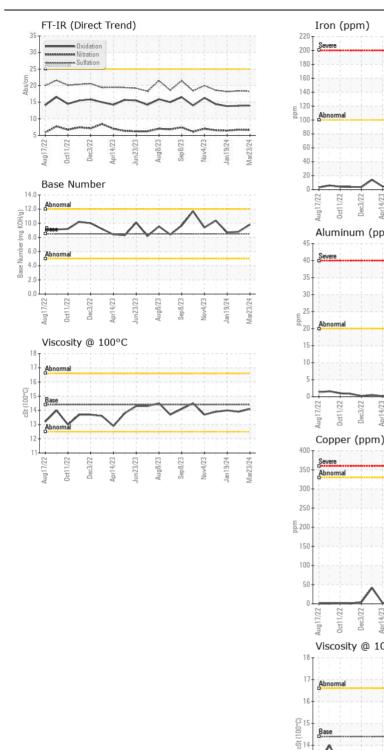
Visc @ 100°C cSt

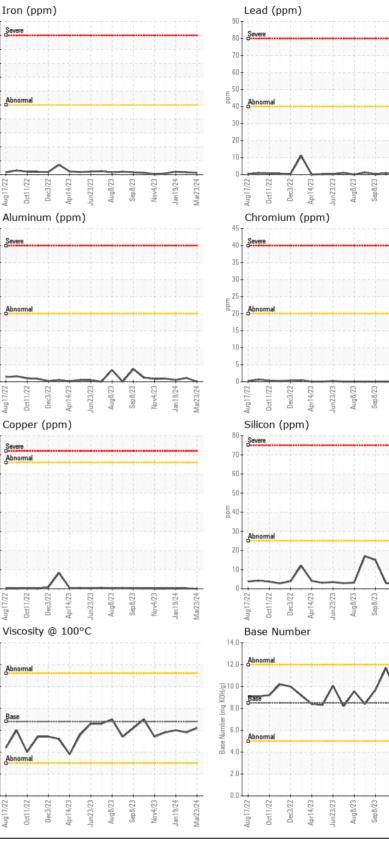
13.9

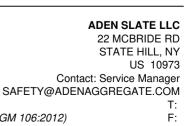
14.0

14.1

ASTM D445 14.4







Nov4/23 Jan 19/24 Mar23/24

an 19/24

/lar23/24

Vov4/23

014/73 an 19/24 lar23/7



Test Package : MOB 2 Certificate L2367 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 11 Apr 2024

: 12 Apr 2024

: 12 Apr 2024 - Wes Davis

Ał 12

Aug17/22

: WC0840561

Laboratory

Sample No.

Lab Number : 06146763

Unique Number : 10976841

Contact/Location: Service Manager - ADESLA Page 2 of 2