				V	VEAR	NORM	IAL
MOB Fluid Analysis			CONTAMINATION			NORMAL	
OIL ANALYSIS REPORT		F	LUID C	ONDI	TION	NORMAL	
					-		
File PMOAS3340839] File CATERPILLAR SR4 6FA05294 - WATER PLANT GORMAN AVE Component Diesel Engine File 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		DC0035241	DC0026355	DC0020421
	Sample Date		Client Info		03 Apr 2024		11 Apr 2022
	Machine Age	yrs	Client Info		1	12	1313
	Oil Age	yrs	Client Info		0	12	0
	Filter Age	yrs	Client Info		0	12	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron		ASTM D5185m	. 100	.4	1	2
WEAN	-	ppm			<1 0		0
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		0	<1	0
		ppm	ASTM D5185m			<1	
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	<1
	Lead	ppm	ASTM D5185m		<1	0	2
	Copper	ppm	ASTM D5185m		1	4	4
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	2	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	2	<1
	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	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.2	5.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.3	15.5	16.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
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		2	3	4
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	3	4	3
	Manganese	ppm	ASTM D5185m	450	0	<1	0
	Magnesium	ppm	ASTM D5185m		43	72	45
	Calcium	ppm	ASTM D5185m	3000	2225	2256	2491
	Phosphorus	ppm	ASTM D5185m		920	928	959
	Zinc	ppm	ASTM D5185m		1108	1098	1092
	Sulfur	ppm	ASTM D5185m		4574	4594	3330
	Oxidation	Abs/.1mm	*ASTM D7414		9.0	9.2	9.7
	Base Number (BN)				7.7	7.7	9.0
	Visc @ 100°C	cSt	ASTM D445	144	13.8	13.5	14.2

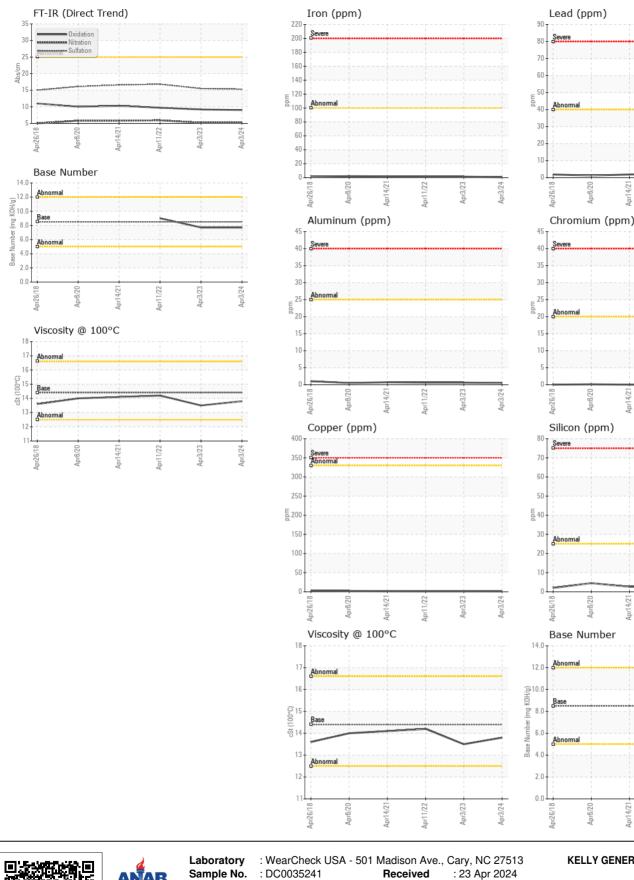
Visc @ 100°C cSt

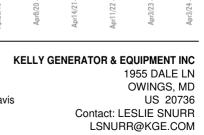
13.5

14.2

13.8

ASTM D445 14.4





: 24 Apr 2024 - Wes Davis Unique Number : 10992896 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) 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)

Tested

: 24 Apr 2024

Lab Number : 06157473

T: (410)257-5225 F: (410)257-5227

Apr3/23

Apr3/23 .

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Apr11/22

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