

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

Westchester des 10 doosan towers 495825uiadg79

Diesel Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

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.

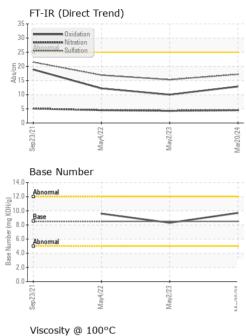
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0878337	WC0799918	WC0651393		
Sample Date		Client Info		20 Mar 2024	02 May 2023	04 May 2022		
Machine Age	hrs	Client Info		49	43	26		
Oil Age	hrs	Client Info		0	16	0		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	ATTENTION	NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2		
Fuel		WC Method	>5	<1.0	0.6	<1.0		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method	20.L	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	0	1	1		
Chromium	ppm	ASTM D5185m	>20	<1	<1	0		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m		0	0	<1		
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1		
Lead	ppm	ASTM D5185m	>40	0	<1	<1		
Copper	ppm		>330	0	<1	<1		
Tin	ppm	ASTM D5185m	>15	<1	<1	0		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	250	8	21	7		
Barium	ppm	ASTM D5185m	10	0	0	0		
Molybdenum	ppm	ASTM D5185m	100	60	50	57		
Manganese	ppm	ASTM D5185m		0	<1	<1		
Magnesium	ppm	ASTM D5185m	450	865	586	841		
Calcium	ppm	ASTM D5185m	3000	1010	1478	1034		
Phosphorus	ppm	ASTM D5185m	1150	977	951	930		
Zinc	ppm	ASTM D5185m	1350	1126	1181	1140		
Sulfur	ppm	ASTM D5185m	4250	3364	3656	3081		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	8	7		
Sodium	ppm	ASTM D5185m	>158	0	1	<1		
Potassium	ppm	ASTM D5185m	>20	0	6	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0	0	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	4.5	4.3	4.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	15.3	16.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	10.0	12.2		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.7	8.3	9.6		
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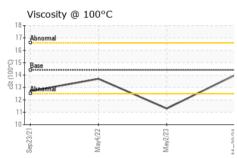
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Contact/Location: JOE SAYEGH - GENNEW

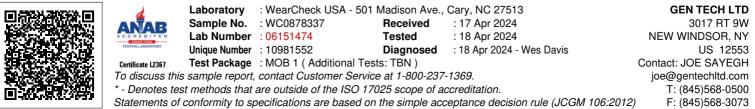


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VISUAL						
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ddor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
/isc @ 100°C	cSt	ASTM D445	14.4	14.0	11.3	13.7
GRAPHS						
Iron (ppm)			100	Lead (ppm)		
Severe			80	Severe		·
			₌ 60			
Abnormal			면 40	Abnormal		
			20			
			0			
Sep 23/21 May4/22		May2/23	Mar20/24	Sep 23/21	May4/22	C7/7Å
Sep		Mar	Mari	Sep	Wa	И
Aluminum (ppm)				Chromium (p	pm)	
Severe			50	Severe		
- 0		1	40		1	1
Abnormal			E 20	Abnormal		
+ 0				- 0		• • • • •
		1	10			
722		/23	24	121	722 -	- C7
Sep 23/21 May4/22		May2/23	Mar20/24	Sep 23/21	May4/22	иауд
Copper (ppm)			2	Silicon (ppm)		
			80	Sincon (ppin)		
Severe Submonnal			60	-		
			톱 40	Abnormal	1	
			20			
		~	0	L	+	
Sep 23/21 May4/22		May2/23	Mar20/24	Sep 23/21	May4/22	ayziz
⊗ ≊ Viscosity @ 100°C		Z	Ma	्र Base Number		2
				T ;		
0			Ноу в 10.0	Abnormal		
Base			 	Base		
Abnormal			quin 5.0	Abnormal		1 1 T
			0.0 mg K0H(g) 8ase Number (mg K0H(g)			
Li		May2/23	0.0 E	Sep 23/21	May4/22	; ; ;
Sep 23/21						



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