

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



WESTERN STAR 4207

Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

)			0ct2022	Dec2022		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0744201	WC0694233	
Sample Date		Client Info		17 Dec 2022	18 Oct 2022	
Machine Age	mls	Client Info		125199	122114	
Oil Age	mls	Client Info		0	450	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	51	
Chromium	ppm	ASTM D5185m	>20	<1	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	17	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	44	
Tin	ppm	ASTM D5185m	>15	0	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	49	
Barium	ppm	ASTM D5185m	10	0	<1	
Molybdenum	ppm	ASTM D5185m	100	58	92	
Manganese	ppm	ASTM D5185m		0	1	
Magnesium	ppm	ASTM D5185m	450	942	567	
Calcium	ppm	ASTM D5185m	3000	1083	1379	
Phosphorus	ppm	ASTM D5185m	1150	1056	819	
Zinc	ppm	ASTM D5185m	1350	1240	1036	
Sulfur	ppm	ASTM D5185m	4250	3684	2467	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	
Sodium	ppm		>158	1	<1	
Potassium	ppm	ASTM D5185m	>20	2	23	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	11.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	26.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	24.6	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	5.5	



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06027299 : 10777090 Test Package : MOB 1 (Additional Tests: TBN)

Received : WC0744201 Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 07 Dec 2023 : 08 Dec 2023 Diagnostician : Wes Davis

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)

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Report Id: INTCHE [WUSCAR] 06027299 (Generated: 12/08/2023 13:08:29) Rev: 1

Page 2 of 2