

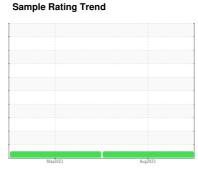
OIL ANALYSIS REPORT

MIDLAND **WESTERN STAR 113**

Component

Diesel Engine

CHEVRON 15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

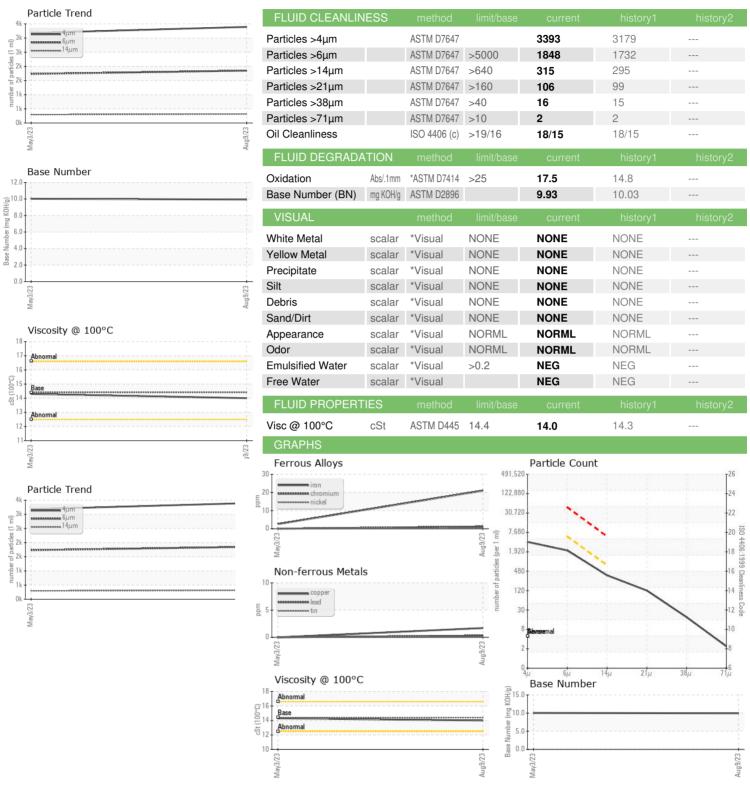
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			May2023	Aug2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012204	KL0012163	
Sample Date		Client Info		09 Aug 2023	03 May 2023	
Machine Age	hrs	Client Info		17263	186057	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	I	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	3	
Chromium	ppm	ASTM D5185m	>20	1	0	
Nickel	ppm	ASTM D5185m	>4	- <1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	6	5	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	2	0	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		398	373	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		166	116	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		779	665	
Calcium	ppm	ASTM D5185m		2234	1530	
Phosphorus	ppm	ASTM D5185m		1111	858	
Zinc	ppm	ASTM D5185m		1321	1059	
Sulfur	ppm	ASTM D5185m		5342	3331	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	
Sodium	ppm	ASTM D5185m	>50	4	0	
Potassium	ppm	ASTM D5185m	>20	8	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	4.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.8	
Juliation						



OIL ANALYSIS REPORT







Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0012204 +05929869: 10615140

Received : 21 Aug 2023 Diagnosed : 22 Aug 2023 : Wes Davis Diagnostician

: MOB 2 (Additional Tests: PrtCount) 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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