

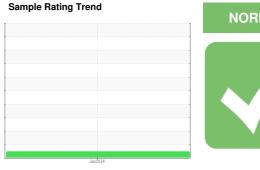
OIL ANALYSIS REPORT

MATERIAL HANDLER 240-90101

Component

Diesel Engine

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





Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

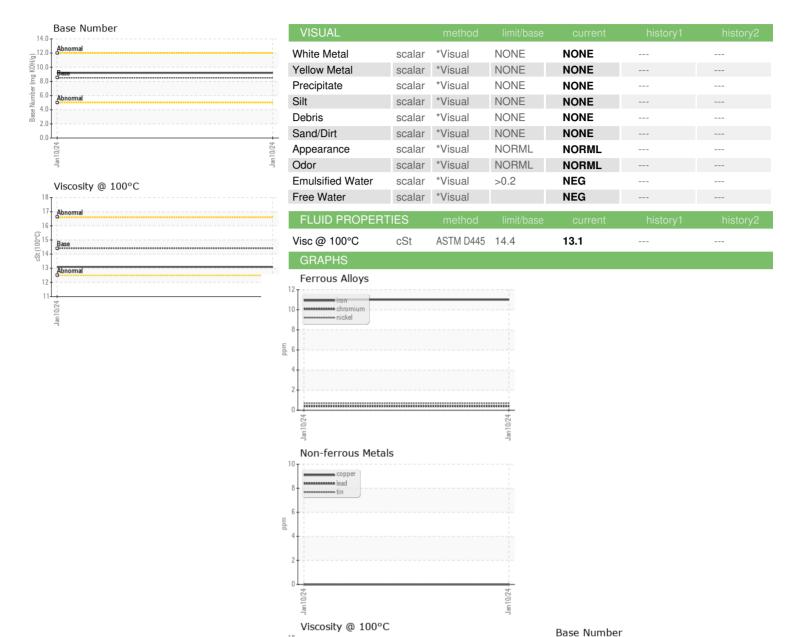
Fluid Condition

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

				Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RLB0000032		
Sample Date		Client Info		10 Jan 2024		
Machine Age	hrs	Client Info		6485		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	6		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	61		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	953		
Calcium	ppm	ASTM D5185m	3000	1075		
Phosphorus	ppm	ASTM D5185m	1150	1047		
Zinc	ppm	ASTM D5185m	1350	1287		
Sulfur	ppm	ASTM D5185m	4250	3145		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m	>158	<1		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	6.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: 10856470 Test Package : FLEET

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RLB0000032 : 30 Jan 2024 Recieved : 06074379 Diagnosed : 31 Jan 2024

: Wes Davis Diagnostician

12.0 (mg KOH/g) 0.8

6.0 Base 2.0 0.0

CHAMLEY PIPE & SALVAGE 5228 134TH AVE NW WILLISTON, ND US 58801

Contact: CHRIS SCHROEDER shop@chamleypipe.com T: (701)425-7136

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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