

OIL ANALYSIS REPORT

Sample Rating Trend





MACK GRANITE MP7 0002 (S/N 639706)

Diesel Engine

HPL HD CK-4 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

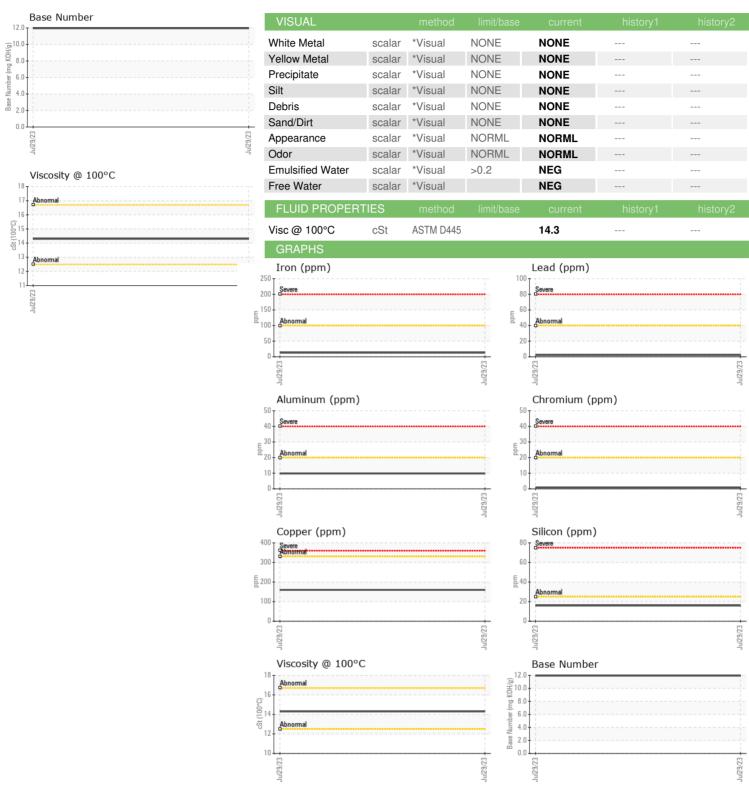
Fluid Condition

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

				Jul2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
		Client Info				•
Sample Number		Client Info		HPL0003558 29 Jul 2023		
Sample Date Machine Age	hrs	Client Info		1378		
Oil Age	hrs	Client Info		600 Channad		
Oil Changed		Client into		Changed NORMAL		
Sample Status				NORWAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	1		
Aluminum	ppm	ASTM D5185m	>20	10		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	160		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		582		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		1049		
Calcium	ppm	ASTM D5185m		2628		
Phosphorus	ppm	ASTM D5185m		1004		
Zinc	ppm	ASTM D5185m		1284		
Sulfur	ppm	ASTM D5185m		7839		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	32		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	13.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.9		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	38.6		
Base Number (BN)	mg KOH/g	ASTM D2896		11.95		



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Report Id: QUAENG [WUSCAR] 05936342 (Generated: 08/29/2023 12:39:41) Rev: 1

Laboratory Sample No. Lab Number

Unique Number

: HPL0003558 : 05936342 : 10621613 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Aug 2023 Diagnosed : 29 Aug 2023

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: Sean Felton Diagnostician

QUALITY-CRETE 6441 SAN CASA DR ENGLEWOOD, FL US 34224 Contact: J SMITH

To discuss this sample report, contact Customer Service at 1-800-237-1369.

JSMITH@QUALITY-CRETE.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact/Location: J SMITH - QUAENG

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