

OIL ANALYSIS REPORT



Sample Rating Trend







Machine Id MACK 20157 Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

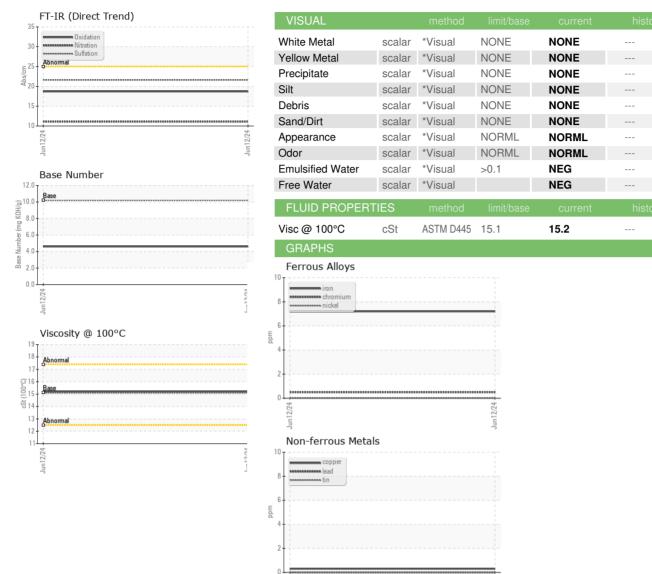
Fluid Condition

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

GEO LD 15W40 (GAL)			Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007379		
Sample Date		Client Info		12 Jun 2024		
Machine Age	hrs	Client Info		8156		
Oil Age	hrs	Client Info		438		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	>5	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>150	<1		
Tin	ppm	ASTM D5185m	>4	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	50	49		
Manganese	ppm	ASTM D5185m	0	0		
Magnesium	ppm	ASTM D5185m	560	565		
Calcium	ppm	ASTM D5185m	1510	1694		
Phosphorus	ppm	ASTM D5185m	780	747		
Zinc	ppm	ASTM D5185m	870	987		
Sulfur	ppm	ASTM D5185m	2040	2885		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	11.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.7		
	AUS/. IIIIIII	A311VI D7414	>25	18.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	18. <i>7</i> 4.6		



OIL ANALYSIS REPORT



Viscosity @ 100°C





Certificate 12367

Laboratory Sample No.

Lab Number : 06211264 Unique Number : 11084128

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: SBP0007379 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024

Tested : 18 Jun 2024 Diagnosed : 18 Jun 2024 - Wes Davis

Base Number

(mg K0H/g)

0.0

59902 N 16TH ST OMAHA, NE US 68110

Contact: TROY BEAN troy.bean@fccenvironmental.com

FCC ENVIRONMENTAL SERVICES NEBRASKA LLC

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)

Report Id: FCCOMA [WUSCAR] 06211264 (Generated: 06/21/2024 23:10:40) Rev: 1

Submitted By: TROY BEAN

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