

OIL ANALYSIS REPORT

Sample Rating Trend NORMAL



Machine Id **300-073**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

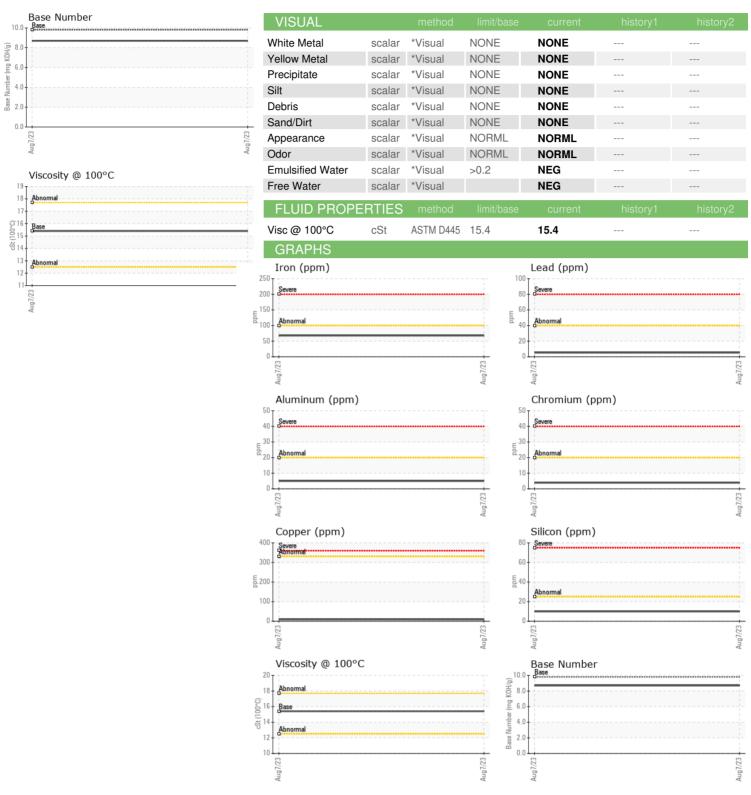
Fluid Condition

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

GAL)				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089597		
Sample Date		Client Info		07 Aug 2023		
Machine Age	hrs	Client Info		1740		
Oil Age	hrs	Client Info		540		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	68		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	9		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	66		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	1016		
Calcium	ppm	ASTM D5185m	1070	1222		
Phosphorus	ppm	ASTM D5185m	1150	1115		
Zinc	ppm	ASTM D5185m	1270	1295		
Sulfur	ppm	ASTM D5185m	2060	3089		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m		2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7		



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: PCA0089597 : 05924658 : 10604605

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

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 15 Aug 2023 Diagnostician : Wes Davis

: 15 Aug 2023

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)

GE MARSHALL EXCAVATION

1351 JOLIET RD VALPARAISO, IN US 46385

Contact: MARK STEFFEL mark.steffel@gemarshall.com

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Report Id: GEMVAL [WUSCAR] 05924658 (Generated: 08/15/2023 16:35:24) Rev: 1

Contact/Location: MARK STEFFEL - GEMVAL

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