

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Komptech Cribus

Diesel Engine

PETRO CANADA DURON SHP 15W40 (12

## DIAGNOSIS

## 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

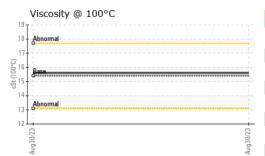
## **Fluid Condition**

The condition of the oil is acceptable for the time in service.

_TR)				Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087354		
Sample Date		Client Info		30 Aug 2023		
Machine Age	hrs	Client Info		1948		
Oil Age	hrs	Client Info		668		
Oil Changed	0	Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	10		
Chromium	ppm	ASTM D5185(m)	>11	<1		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>31	3		
Lead	ppm	ASTM D5185(m)	>26	<1		
Copper	ppm	ASTM D5185(m)		25		
Tin	ppm	ASTM D5185(m)	>4	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	60		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	1018		
Calcium	ppm	ASTM D5185(m)	1070	1305		
Phosphorus	ppm	ASTM D5185(m)	1150	1092		
Zinc	ppm	ASTM D5185(m)	1270	1344		
Sulfur	ppm	ASTM D5185(m)	2060	2603		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	11		
Sodium	ppm	ASTM D5185(m)	>31	3		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	10.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8		



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VISUAL		method				history2
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
<b>Emulsified Water</b>	scalar	Visual*	>0.21	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.6
GRAPHS				
Iron (ppm)  Severe  150 Abnormal			Aug30/23	Lead (ppm)  Sewere  Annoanal  20  Region (ppm)  Sewere  100  800  400  400  Abnormal  20  800  100  100  100  100  100  100
Aluminum (ppm)  Severe  Solution (ppm)  Aluminum (ppm)  Severe  Solution (ppm)  Aluminum (ppm)  Severe			Aug30/23	Chromium (ppm)  Severe  Abnormal  EZOBERINA  EZOBERINA
Copper (ppm)  Severe  Abnormal			Aug30/23	Silicon (ppm)  40 30 Abnormal  E220 10  E270628PW
Viscosity @ 100°C			Aug30/23	Soot %  5.0  4.0  Abnormal  2008 2.0  1.0  8208 2.0  1.0  8208 8208 8208 8208 8208 8208 8208 8



**CALA** ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5641936

: GFL0087354 : 02580871

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill Received Diagnosed

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: Visual)

: 07 Sep 2023 : 07 Sep 2023

17125 Lafleche Road, Moose Creek, ON CA K0C 1W0 Contact: Charles Bergeron cbergeron@gflenv.com T: (613)538-4853

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.