

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CRUSADER NIEL ROSE

Port Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified. however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high concentration of water present in the oil. Free water present. Test for glycol is negative.

Fluid Condition

The white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

				Jun 2024		
OAMBLE INFOR	MATION		11 11 11			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0083400		
Sample Date		Client Info		08 Jun 2024		
Machine Age	hrs	Client Info		200		
Oil Age	hrs	Client Info		1		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	79		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	13		
Tin	ppm	ASTM D5185(m)	>15	0		
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)	250	165		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	2		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	37		
Calcium	ppm	ASTM D5185(m)	3000	2124		
Phosphorus	ppm	ASTM D5185(m)	1150	897		
Zinc	ppm	ASTM D5185(m)	1350	1098		
Sulfur	ppm	ASTM D5185(m)	4250	2782		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	15		
Sodium	ppm	ASTM D5185(m)	>158	20		
Potassium	ppm	ASTM D5185(m)	>20	9		
Water	%	ASTM D6304*	>0.2	2.164		
ppm Water	ppm	ASTM D6304*	>2000	21649		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	11.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.9		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC0083400 Lab Number

: 02641386 Unique Number : 5798925

Received : 12 Jun 2024 Tested : 13 Jun 2024 Diagnosed : 13 Jun 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: Bottom, Glycol, KF, KV40, VI, Visual)

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.

1515 KERR AVE BOX 40 ERIEAU, ON CA NOP 1N0

Contact: DAVE BARNIER info@erieaumarina.com T: (519)676-4571

F: (519)676-3674