LABORATORY ANALYSIS



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PETRON PLUS GLOBAL, INC 208 EAST 2ND AVENUE HUTCHINSON, KS

United States 67501 Contact: Service Manager

F:

59 (00003) Equipment No.

System **CUMMINS RAM 5500 Diesel Engine**

Oil Type {not provided} (--- GAL)

DIAGNOSIS

We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Aluminum (AI) ppm levels are marginal. All other component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The condition of the oil is acceptable for the time in service.

Lab Number New 2312-00411 Date of Sample (Typical) 06 Dec 2023 Oil Added UNK Last Drain Date Last Friter Service Sample Point Sample Status SEVERE VISCOSITY @ 100F OR 40C (ASTM D-445) SSU Vis. @ 100F SSU 131.8 SSU Vis. @ 100F SSU 131.8 SSU Vis. @ 100F SSU 131.8 SWATER - KARL FISCHER (ASTM E203) % WATER - KARL FISCHER (ASTM E203) % Water (KF) ppm	SAMPLE INFORMATION					
Oil Added UNK	Lab Number	New	2312-00411			
Last Filter Service	Date of Sample	(Typical)	06 Dec 2023			
Last Filter Service	Oil Added		UNK			
Sample Point Sample Status SEVERE SEVERE	Last Drain Date					
Sample Status	Last Filter Service					
VISCOSITY @ 100F OR 40C (ASTM D-445) SSU Vis. @ 100F SSU 131.8	Sample Point					
SSU Vis. @ 100F SSU 131.8	Sample Status		SEVERE			
CSt Vis. @ 40C	VISCOSITY @ 100F OR 40C (ASTM D-445)					
% WATER - KARL FISCHER (ASTM E203) % Water (KF) % ■ 0.019	SSU Vis. @ 100F	SSU	131.8			
% Water (KF) % ■0.019 ppm Water (KF) ppm ■190 TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974) TAN, mg KOH/g ¶ 4.36 ICP - OILS (REPORTED IN PARTS PER MILLION) Aluminum (AI) ppm ▲ 13 Antimony (Sb) ppm <5	cSt Vis. @ 40C	cSt	25.36			
% Water (KF) % ■0.019 ppm Water (KF) ppm ■190 TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974) TAN, mg KOH/g ¶ 4.36 ICP - OILS (REPORTED IN PARTS PER MILLION) Aluminum (AI) ppm ▲ 13 Antimony (Sb) ppm <5	% WATER - KAR	RI FISCHER (ASTA	1 E203)			
TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974) TAN, mg KOH/g		·	·			
TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974) TAN, mg KOH/g	` '		_			
TAN, mg KOH/g mg KOH/g	ppm Water (KF)	ppm	190			
Aluminum (Al)	TOTAL ACID NU	MBER (NEUT. NO.	.)(ASTM D974)			
Aluminum (AI) ppm ▲ 13 Antimony (Sb) ppm <5	TAN, mg KOH/g	mg KOH/g	4.36			
Aluminum (AI) ppm ▲ 13 Antimony (Sb) ppm <5	ICD OILS (DED	ODTED IN DADTS	DED MILLIONI\			
Antimony (Sb) ppm	`	ONTED IN PANTS	PEN WILLION)			
Cadmium (Cd) ppm <5	` ,	ppm	-			
Chromium (Cr) ppm <5	- , ,	ppm				
Cobalt (Co) ppm <5	` ,					
Copper (Cu) ppm <5	` ,					
Iron (Fe) ppm 99 Lead (Pb) ppm <5	` '					
Lead (Pb) ppm <5						
Manganese (Mn) ppm <5	· /					
Molybdenum(Mo) ppm 46 Nickel (Ni) ppm <5	, ,					
Nickel (Ni) ppm <5	• • • •					
Silver (Ag) ppm <5	, ,					
Tin (Sn) ppm <5	()					
Titanium (Ti) ppm <5 Vanadium (V) ppm <5	(0)		· -			
Vanadium (V) ppm <5	` '					
Barium (Ba) ppm <5 Boron (B) ppm 108 Calcium (Ca) ppm 750 Magnesium (Mg) ppm 222 Phosphorus(P) ppm 574						
Boron (B) ppm 108 Calcium (Ca) ppm 750 Magnesium (Mg) ppm 222 Phosphorus(P) ppm 574						
Calcium (Ca) ppm 750 Magnesium (Mg) ppm 222 Phosphorus(P) ppm 574	(/					
Magnesium (Mg) ppm 222 Phosphorus(P) ppm 574	()					
Phosphorus(P) ppm 574	,					
Cilicon (Ci) ppin	. , ,		-			
Zinc (Zn) ppm 649	` ,					
Sulfur (S) ppm 1,130	(,					

Customer Id: ENC0060B01 **Sample No.:** EN23120411 Lab Number: 23120411 Test Package: TEST



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To discuss the diagnosis or test data: Tracy Weaks +1 (314)872-9540 tweaks@englube.com

To change component or sample information: Tracy Weaks +1 (314)872-9540 tweaks@englube.com



OIL ANALYSIS REPORT

