

LABORATORY ANALYSIS



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PETRON PLUS GLOBAL, INC
208 EAST 2ND AVENUE
HUTCHINSON, KS
United States 67501
Contact: Service Manager

Equipment No. **59 (00003)**
System **CUMMINS RAM 5500 Diesel Engine**
Oil Type **{not provided} (--- GAL)**

T:
F:

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 (Al) 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.

SAMPLE INFORMATION

Lab Number	New	2312-00411	---	---
Date of Sample	(Typical)	06 Dec 2023	---	---
Oil Added		UNK	---	---
Last Drain Date		--	---	---
Last Filter Service		--	---	---
Sample Point		---	---	---
Sample Status		SEVERE	---	---

VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	131.8	---	---
cSt Vis. @ 40C	cSt	▲ 25.36	---	---

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	■ 0.019	---	---
ppm Water (KF)	ppm	■ 190	---	---

TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974)

TAN, mg KOH/g	mg KOH/g	● 4.36	---	---
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ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	▲ 13	---	---
Antimony (Sb)	ppm	<5	---	---
Cadmium (Cd)	ppm	<5	---	---
Chromium (Cr)	ppm	<5	---	---
Cobalt (Co)	ppm	<5	---	---
Copper (Cu)	ppm	<5	---	---
Iron (Fe)	ppm	99	---	---
Lead (Pb)	ppm	<5	---	---
Manganese (Mn)	ppm	<5	---	---
Molybdenum(Mo)	ppm	46	---	---
Nickel (Ni)	ppm	<5	---	---
Silver (Ag)	ppm	<5	---	---
Tin (Sn)	ppm	<5	---	---
Titanium (Ti)	ppm	<5	---	---
Vanadium (V)	ppm	<5	---	---
Barium (Ba)	ppm	<5	---	---
Boron (B)	ppm	108	---	---
Calcium (Ca)	ppm	750	---	---
Magnesium (Mg)	ppm	222	---	---
Phosphorus(P)	ppm	574	---	---
Silicon (Si)	ppm	8	---	---
Zinc (Zn)	ppm	649	---	---
Sulfur (S)	ppm	1,130	---	---

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



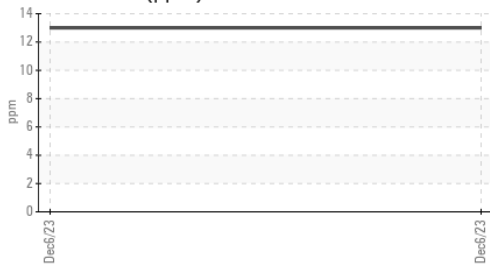
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To discuss the diagnosis or test data:
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tweaks@englube.com

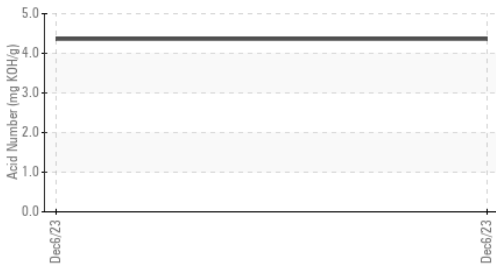
To change component or sample information:
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OIL ANALYSIS REPORT

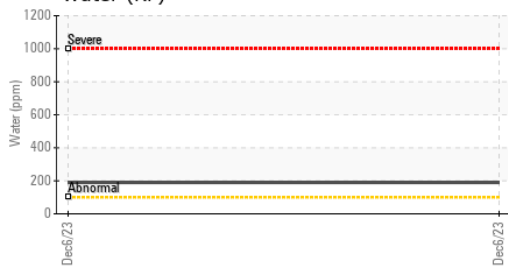
▲ Aluminum (ppm)



Acid Number



Water (KF)



Viscosity @ 40°C

