

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

CUMMINS 25093

Component **Rear Diesel Engine DIESEL ENGINE OIL SAE 15W40 (6 LTR)**

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

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

| SAMPLE INFORMATION method Imit/base current history1 history2 Sample Number Client Info 23 Nov 2023 Sample Date Client Info 34722 Oil Age kms Client Info 34722 Oil Changed Kms Client Info 5470 Sample Status Client Info Changed CONTAMINATION method Imit/base current History1 History2 Water WC Method >0.2 NEG Wetar WC Method >0.2 NEG Nokel ppm ASTM05186/m 20 2 Nokel ppm ASTM05186/m >2 0 Nokel ppm ASTM05186/m >2 1 Nokel ppm ASTM05186/m </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
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| Sample Number Client Info PC0083786 Sample Date Client Info 23 Nov 2023 Machine Age kms Client Info 0 Oil Age kms Client Info 0 Oil Changed Client Info Changed Sample Status Im Imitibase current history1 Water WC Method >0.2 NEG Otromium ppm ASTM 0515500 >20 2 Nickel ppm ASTM 0515500 >20 2 Nickel ppm ASTM 0515500 >2 <1 Nickel ppm ASTM 0515500 >2 <1 Nickel ppm ASTM 0515500 >2 <1 Nickel ppm ASTM 0515500 | SAMPLE INFOR | | method | limit/base | current | history1 | history2 |
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| Machine Age kms Client Info 34722 Oil Age kms Client Info 0 Sample Status Client Info Changed Sample Status method limit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 2 Nickel ppm ASTM D5185(m) >22 <1 | • | | | | | | |
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| Coli Changed Client Info Changed Sample Status Image: Status | • | | | | - | | |
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| | Canadon | , wa, mini | | 200 | 51.5 | | |



140 T Ab normal

130

90 Abnorma 80 Nov23/23

18 17 16 cSt (100°C) Base

13

Abnormal 12

Nov23/23

140 Abnormal 130

120 CSt (10°C) 110 100 B

> 90 Abnorma 80 Nov23/23

Viscosity @ 40°C

Viscosity @ 100°C

Viscosity @ 40°C

OIL ANALYSIS REPORT

| Contaction Abs/Im ASIM D744* >25 29.5 VISUAL method imit/base ourrent history1 histo Emulsified Water scalar Visual* >0.2 NEG Free Water scalar Visual* NEG Visc @ 40°C C.st. ASIM/D723m 11.5 103 Visc @ 40°C C.st. ASIM/D723m 14.4 13.9 Visc @ 100°C C.st. ASIM/D723m 14.4 13.9 GRAPHS Tron (ppm) Auminum (ppm) Auminum (ppm) Auminum (ppm) Copper (ppm) Copper (ppm) Viscosity @ 100°C V | | FLUID DEGRA | | method | limit/base | current | history1 | history2 |
|--|---|--|----------------------------------|--------------------------------|---------------------------------|-----------------|----------|--|
| Enulatified Water scalar Visual* >0.2 NEG Free Water scalar Visual* NEG FLUID PROPERTIES method limitbase current history1 history1 Nisce 2000 Costs ASTM 02270* 126 136 Viscosity Index (VI) Scale ASTM 02270* 126 136 GRAPHS Tron (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) WarCheck - C3-1175 Appleby Line, Burlington, ON L/Z 5H9 No. : PC0083786 Recieved :: 15 Dec 2023 Tron (2203421 Diagnosed :: 19 Dec 2023 TORONTO FIRE SERVE Contact Customer Service at 1-800-268-2131. Contact Customer Service at 1-800-268-2131. | | | | | >25 | 29.5 | | |
| Enulatified Water scalar Visual* >0.2 NEG Free Water scalar Visual* NEG FLUID PROPERTIES method limitbase current history1 history1 Nisce 2000 Costs ASTM 02270* 126 136 Viscosity Index (VI) Scale ASTM 02270* 126 136 GRAPHS Tron (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) WarCheck - C3-1175 Appleby Line, Burlington, ON L/Z 5H9 No. : PC0083786 Recieved :: 15 Dec 2023 Tron (2203421 Diagnosed :: 19 Dec 2023 TORONTO FIRE SERVE Contact Customer Service at 1-800-268-2131. Contact Customer Service at 1-800-268-2131. | | VISUAI | | method | limit/base | current | historv1 | history2 |
| Free Water scalar Visual* NEG FLUID PROPERTIES method limit/base current history1 history1 history1 visco 100°C cls1 ASIMD220m 115 103 Visc @ 40°C cls1 ASIMD220m 14.4 13.9 Visc @ 100°C cls1 ASIMD220m 14.4 13.9 GRAPHS GRAPHS Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Goper (ppm) Copper (ppm) Viscosity @ 100°C Viscosity @ 100°C WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 No. : PC0808786 Recleved ::15 Dec 2023 TORONTO FIRE SERV Viscosity I (Additional Test: FUEDLUITON, KV40, PercentFuel, VI) pport, contact Customer Service at 1-300-2862;2131. | | | scalar | | | | | |
| Visc @ 40°C cst ASIMD228/m 115 103 | | | | | 20.L | | | |
| Visc @ 100°C est ASIM D2270° 126 136 | | FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C C CSt ASTM D2270 126 136 Viscosity Index (VI) Scale ASTM D2270 126 136 GRAPHS Iron (ppm) | ov23/23 | Visc @ 40°C | cSt | ASTM D7279(m) | 115 | 103 | | |
| GRAPHS Iron (ppm) | 2 | Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 13.9 | | |
| ron (ppm) Fron (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Cop | | • • • • | Scale | ASTM D2270* | 126 | 136 | | |
| Aluminum (ppm) Aluminum (ppm) | | | | | | | | |
| Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) | | | | | 10 | | | |
| Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) | | 200 Severe | | | 8 | 0 - Severe | | |
| Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) | E | 150- | | | 6 | 0- | | |
| Aluminum (ppm) Aluminum (ppm) | DDT | 100 - Abnormal | | | dd 4 | 0 - Abnormal | | |
| Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Copper (ppm) Viscosity @ 100°C Viscosity @ 100°C Viscosity @ 100°C Viscosity @ 100°C Copper (ppm) Copper (ppm) Co | | 50 - | | | 2 | 0 | | |
| Aluminum (ppm) Aluminum (ppm) | | | | | | - | | c |
| Aluminum (ppm) Aluminum (ppm) | | Vov23/1 | | | Vav23/2 | Vov23/2 | | 50750/mW |
| Copper (ppm) Copper (ppm) Contact: Antonio Rodr antonio.rodrigues@toror | | — | | | 2 | | pm) | - |
| Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) | | Severe | | | | Severe | | |
| pry : WearCheck - C8-1175 Appleby Line, Burlington, ON L/L 5H9 No. : PC0083786 Recieved : 15 Dec 2023 her : 5696506 Diagnostician : Wes Davis contact: Antonio Rodr port, contact Customer Service at 1-800-268-2131. scope of accreditation, (m) method modified, (e) tested at external lab. | | | | | | | | |
| Copper (ppm) Copper (ppm) Contact: Antonio Rod antonio.rodrigues@tord | | 8 | | | udd o | | | |
| Copper (ppm) Copper (ppm) | | 20 | | | 1 | | | |
| Copper (ppm) | | | | | | | | |
| Copper (ppm) | | v23/23 | | | v23/23 | v23/23 | | Mov.23/23 |
| August 2000 and a construct of the second | | - | | | No | — | | No |
| viscosity @ 100°C viscosity @ 1 | | 400 Severe | | | 8 | | | |
| viscosity @ 100°C viscosity @ 1 | | <u>u</u> | | | 6 | 0- | | |
| viscosity @ 100°C viscosity @ 1 | Шd | 200- | | | <u>E</u> 4 | 0 | | |
| viscosity @ 100°C viscosity @ 1 | | 100- | | | | Abnormal | | |
| Viscosity @ 100°C Viscosity @ 1 | | | | | | | | |
| Viscosity @ 100°C Viscosity @ 1 | | | | | | | | - FC/FC/IN |
| bry : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 No. : PC0083786 Recieved : 15 Dec 2023 40 TORYORK D hber : 02603421 Diagnosed : 19 Dec 2023 TORONTO umber : 5696506 Diagnostician : Wes Davis CA M9I ckage : MOB 1 (Additional Tests: FUELDILUTION, KV40, PercentFuel, VI) eport, contact Customer Service at 1-800-268-2131. scope of accreditation, (m) method modified, (e) tested at external lab. | | | | | Nov | | | Nov |
| bry : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 No. : PC0083786 Recieved : 15 Dec 2023 40 TORYORK D hber : 02603421 Diagnosed : 19 Dec 2023 TORONTO umber : 5696506 Diagnostician : Wes Davis CA M9H ckage : MOB 1 (Additional Tests: FUELDILUTION, KV40, PercentFuel, VI) eport, contact Customer Service at 1-800-268-2131. scope of accreditation, (m) method modified, (e) tested at external lab. | | , - | | | 7. | | | |
| bry : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 No. : PC0083786 Recieved : 15 Dec 2023 40 TORYORK D hber : 02603421 Diagnosed : 19 Dec 2023 TORONTO umber : 5696506 Diagnostician : Wes Davis CA M94 ckage : MOB 1 (Additional Tests: FUELDILUTION, KV40, PercentFuel, VI) eport, contact Customer Service at 1-800-268-2131. scope of accreditation, (m) method modified, (e) tested at external lab. | | 0 | | | | i i i | | |
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То 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.

F: (416)338-9207